多丽影像

DOLI Digital minilab (Small LCD panel)

Trouble shooting

- **Error indication on the LCD**
- **Mechanical failure**
- **Software failure**

Catalogue

Catalogue ····· *错误！未定义书签。*

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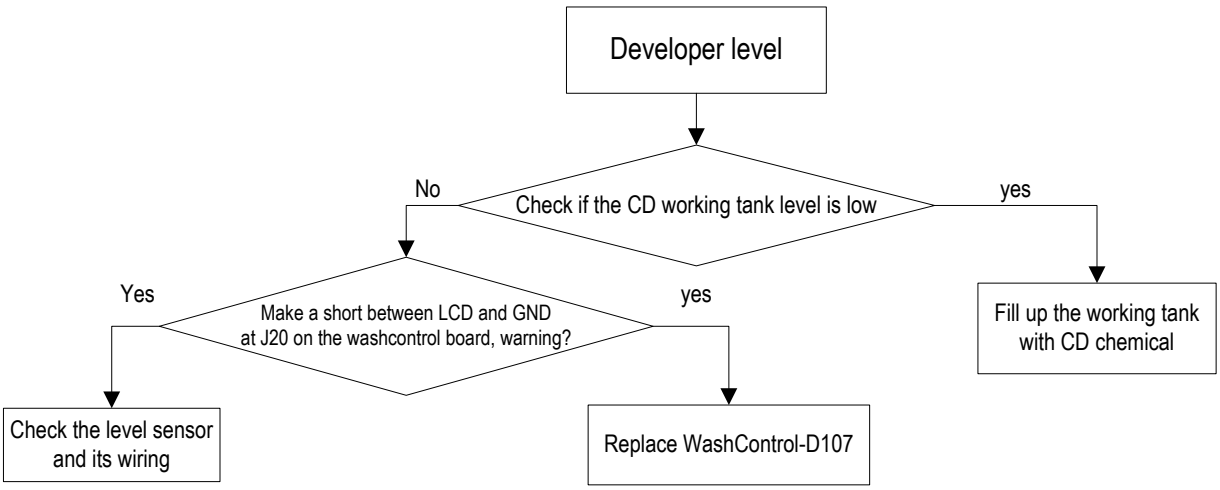
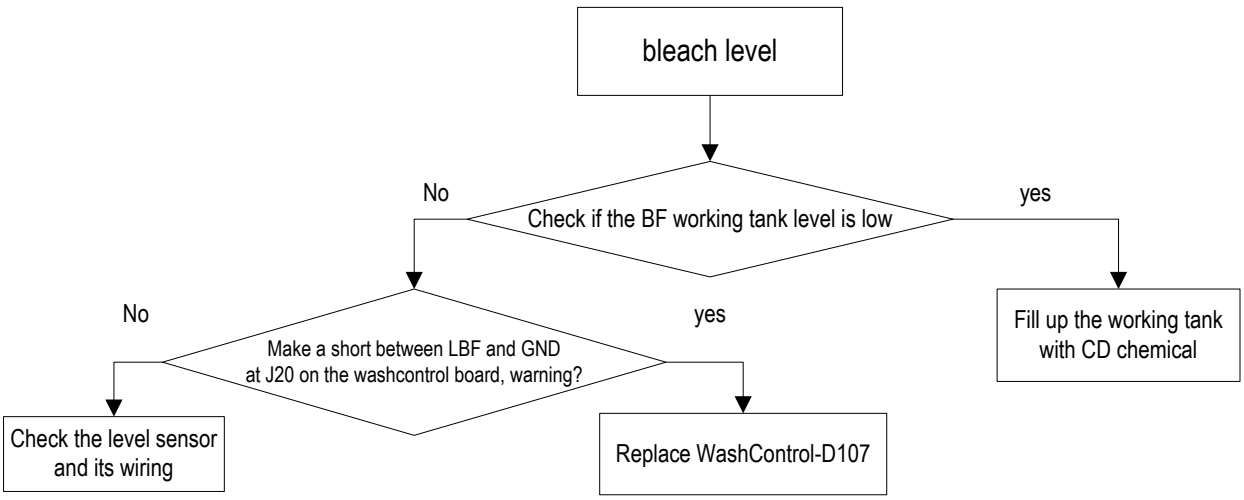
Chapter 1 Error indication on the LCD

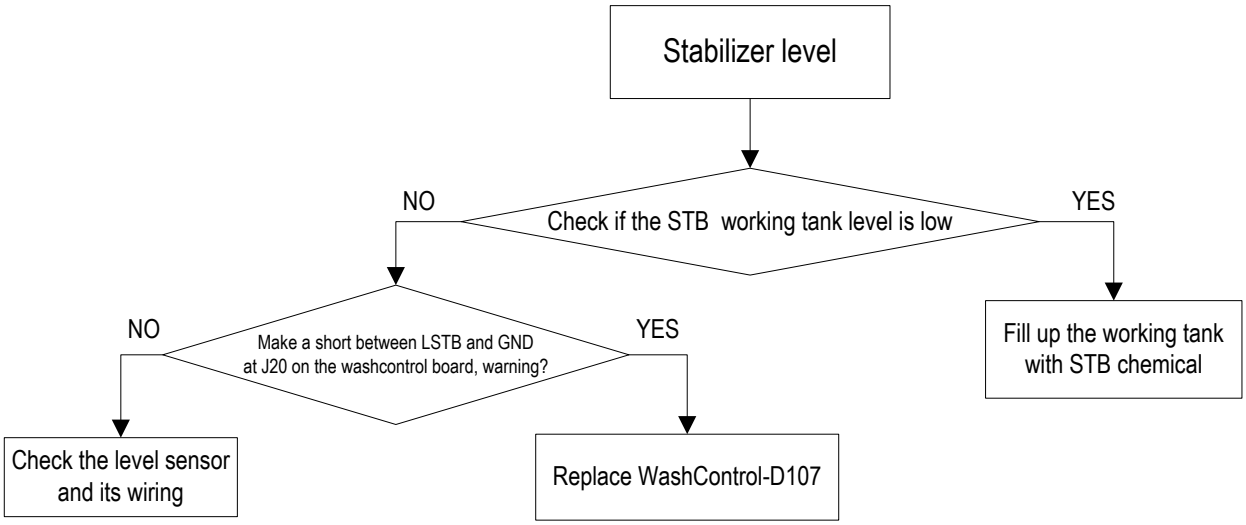
§ 1.1 Developer level



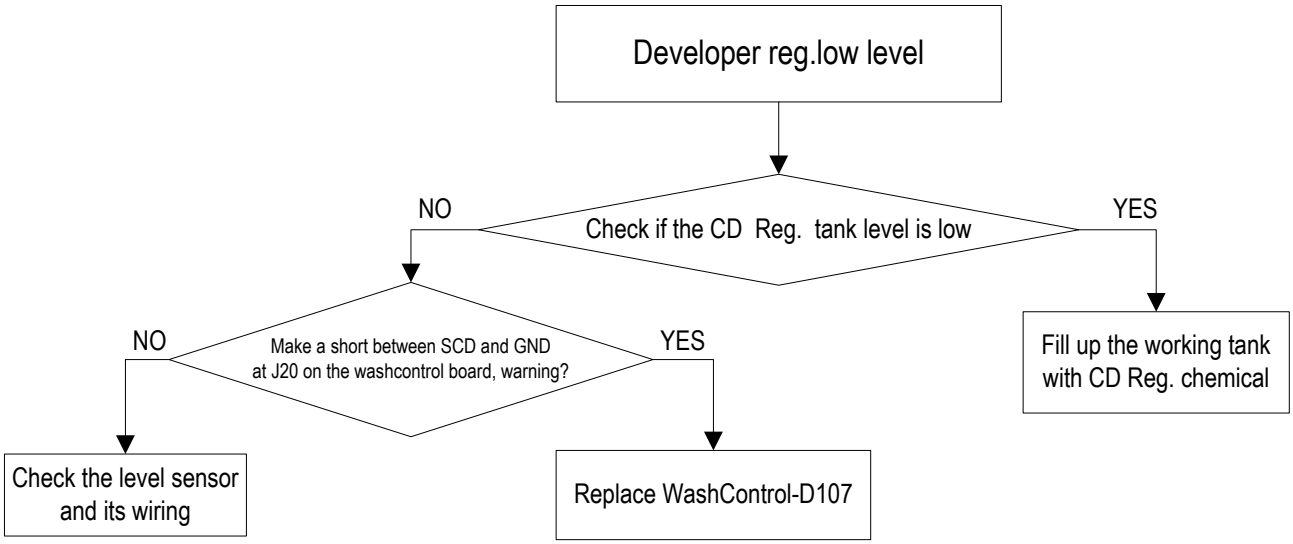
§ 1.2 Bleach level



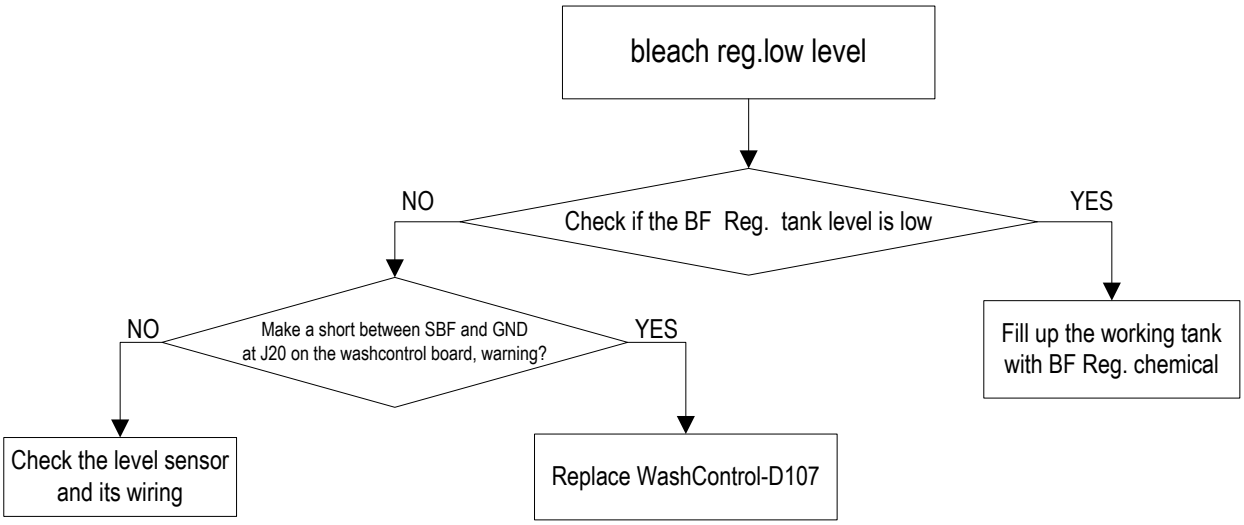
§ 1.3 Stabilizer level


Stabilizer level
Check if the STB working tank level is low
NO
YES
Make a short between LSTB and GND at J20 on the washcontrol board, warning?
NO
YES
Fill up the working tank with STB chemical
Check the level sensor and its wiring
Replace WashControl-D107

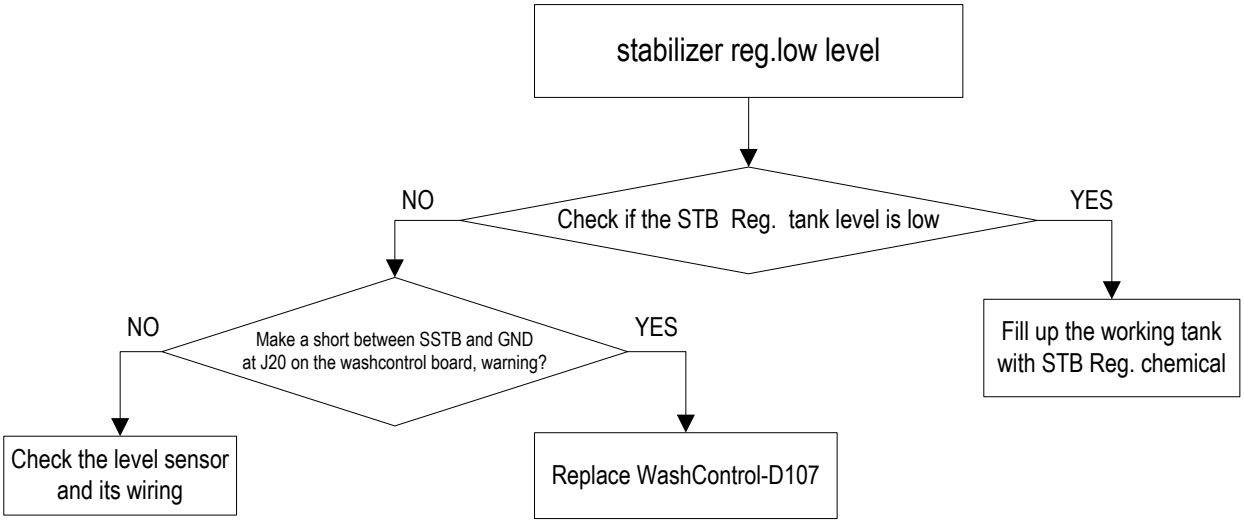
§ 1.4 Developer reg.low level


Developer reg.low level
Check if the CD Reg. tank level is low
NO
YES
Make a short between SCD and GND at J20 on the washcontrol board, warning?
NO
YES
Fill up the working tank with CD Reg. chemical
Check the level sensor and its wiring
Replace WashControl-D107

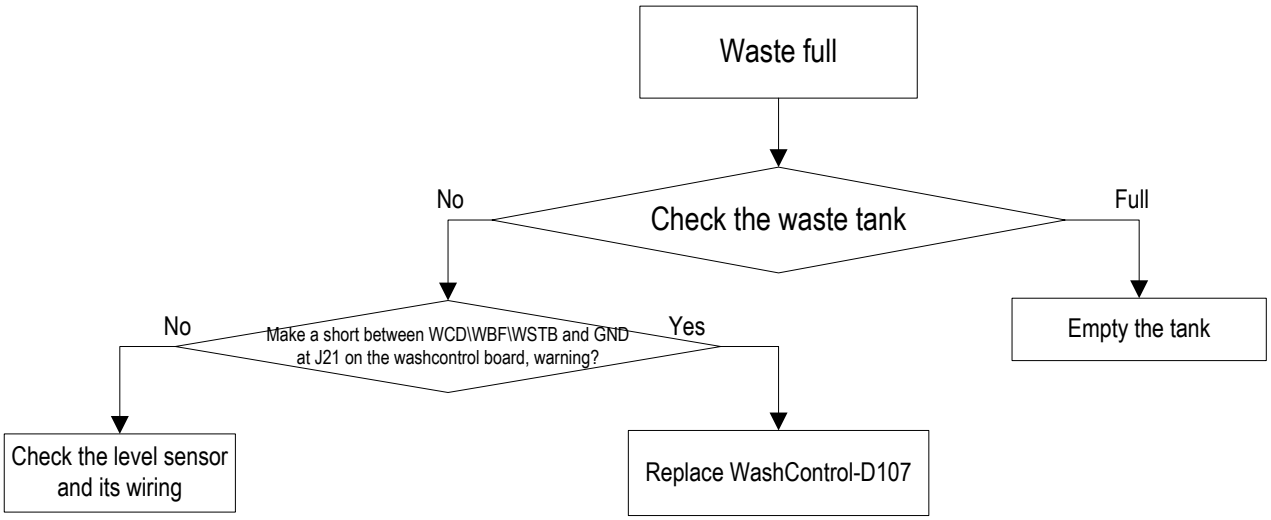
§ 1.5 Bleach reg.low level


bleach reg.low level
Check if the BF Reg. tank level is low
NO
YES
Make a short between SBF and GND at J20 on the washcontrol board, warning?
NO
YES
Fill up the working tank with BF Reg. chemical
Check the level sensor and its wiring
Replace WashControl-D107

§ 1.6 Stabilizer reg.low level


stabilizer reg.low level
Check if the STB Reg. tank level is low
NO
YES
Make a short between SSTB and GND at J20 on the washcontrol board, warning?
NO
YES
Fill up the working tank with STB Reg. chemical
Check the level sensor and its wiring
Replace WashControl-D107

§ 1.7 Waste full



§ 1.8 Photo preparation failure

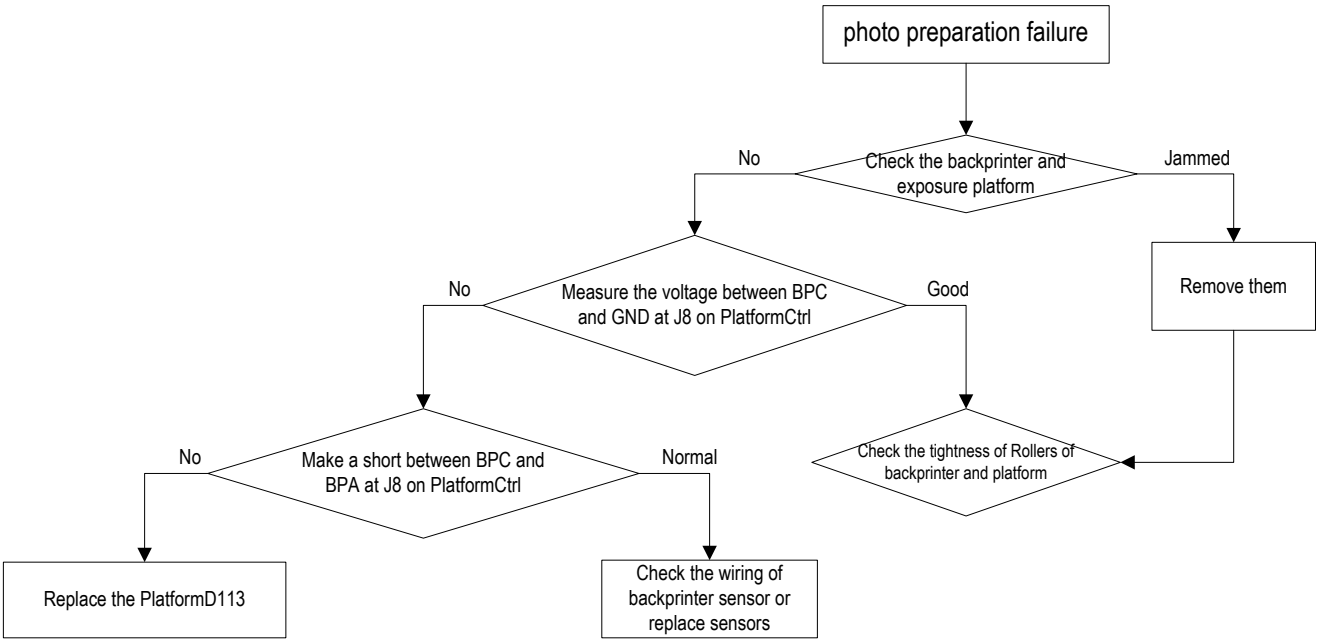
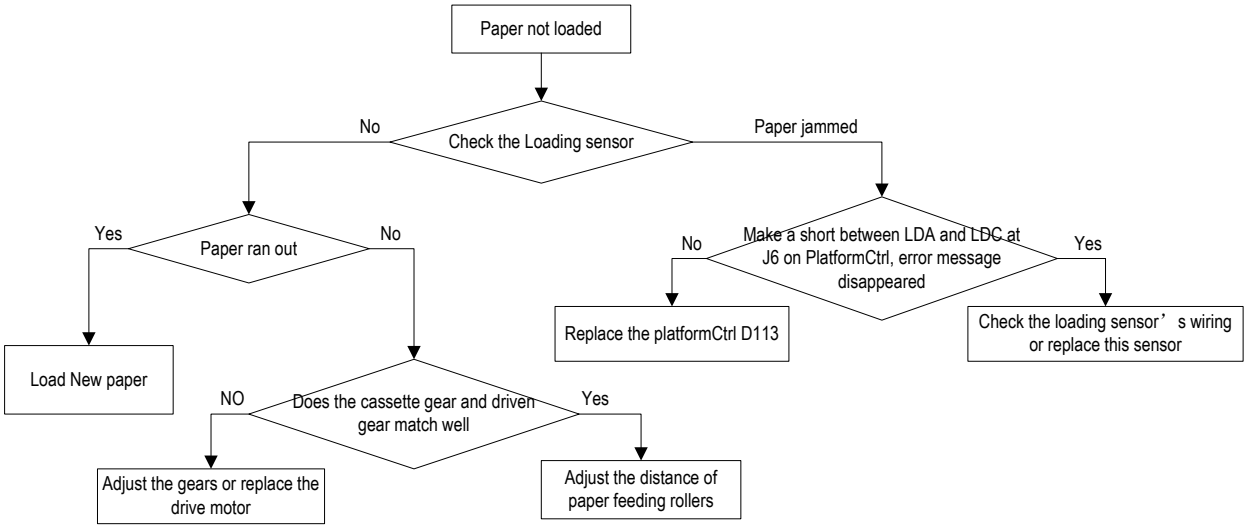


photo preparation failure
Check the backprinter and exposure platform
No
Jammed
Remove them
Measure the voltage between BPC and GND at J8 on PlatformCtrl
No
Good
Make a short between BPC and BPA at J8 on PlatformCtrl
No
Normal
Check the tightness of Rollers of backprinter and platform
Replace the PlatformD113
Check the wiring of backprinter sensor or replace sensors

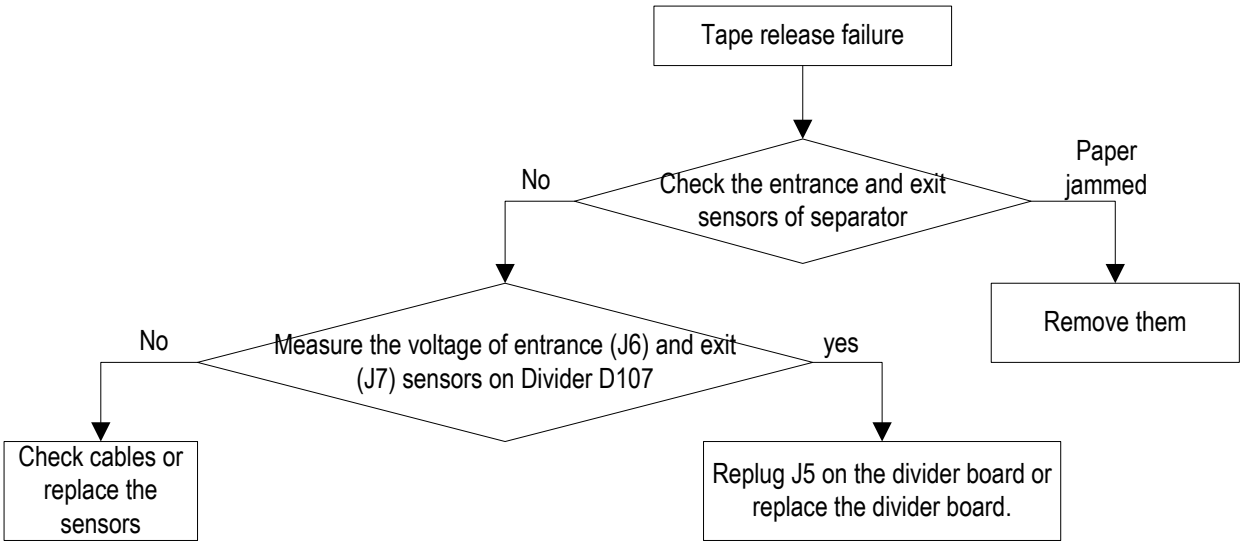
The voltage of BPC at J8 on platform board should be less than 1.0v (without paper), more than 4.0v (with paper)

§ 1.9 paper not loaded


Paper not loaded
Check the Loading sensor
No
Paper jammed
Yes
Paper ran out
No
Load New paper
NO
Does the cassette gear and driven gear match well
Yes
Adjust the gears or replace the drive motor
Adjust the distance of paper feeding rollers
No
Make a short between LDA and LDC at J6 on PlatformCtrl, error message disappeared
Yes
Replace the platformCtrl D113
Check the loading sensor’ s wiring or replace this sensor

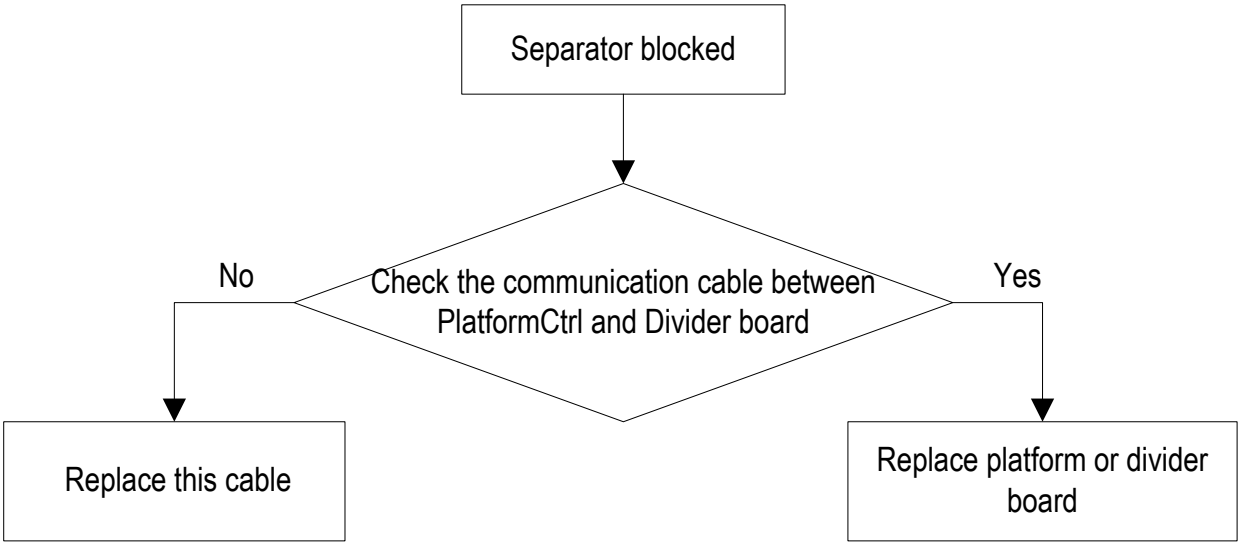
The voltage of LDC at J6 on platform board should be less than 1.0v (without paper), more than 4.0v (with paper)

§ 1.10 Tape release failure

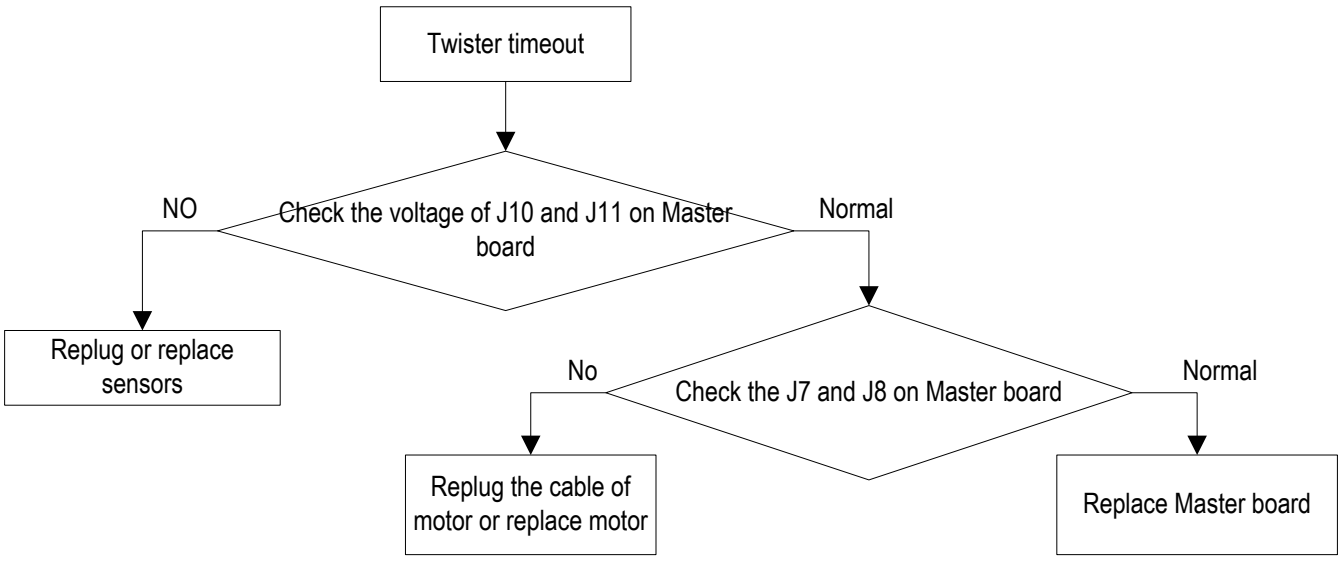

Tape release failure
Check the entrance and exit sensors of separator
No
Paper jammed
Remove them
Measure the voltage of entrance (J6) and exit (J7) sensors on Divider D107
No
yes
Check cables or replace the sensors
Replug J5 on the divider board or replace the divider board.

The voltage of separator’s entrance\ exit at J6\ J7 should be more than 4.5v (with paper), less than 1.0 (without paper)

§ 1.11 Separator blocked

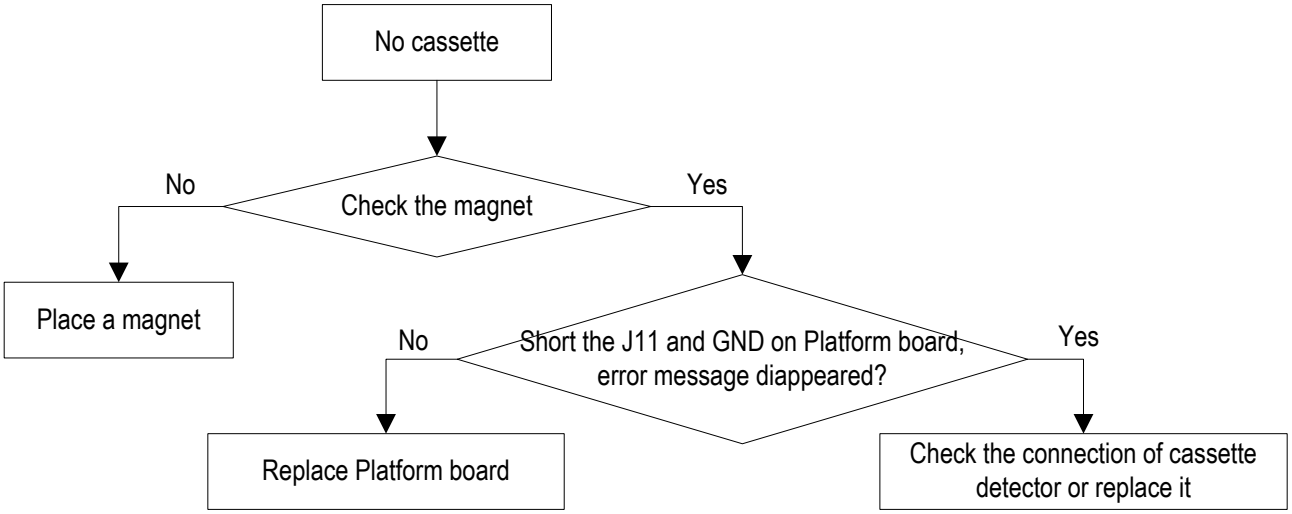


§ 1.12 Twister timeout



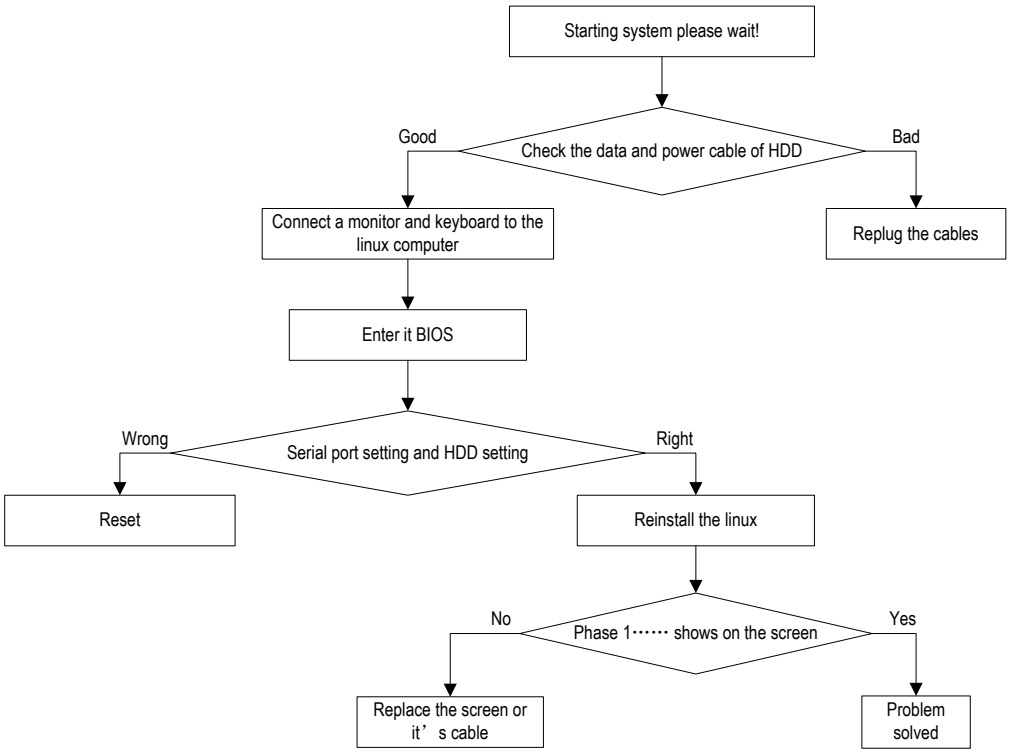
Check the middle cable at J7 and J8 for X\ Y twister sensor on master board, should be more than 4.5v when it's blocked, less than 1.0v when released.

§ 1.13 No cassette

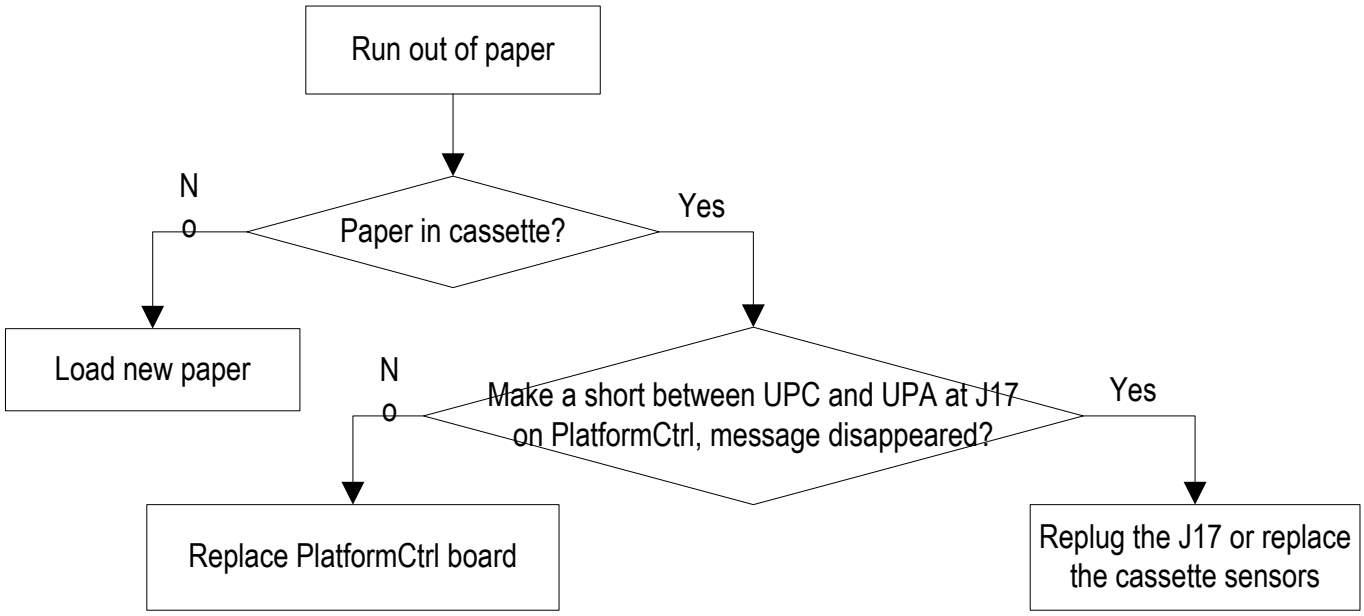


J11 is the cassette detector of upper, J10 is lower

§ 1.14 Starting system please wait!

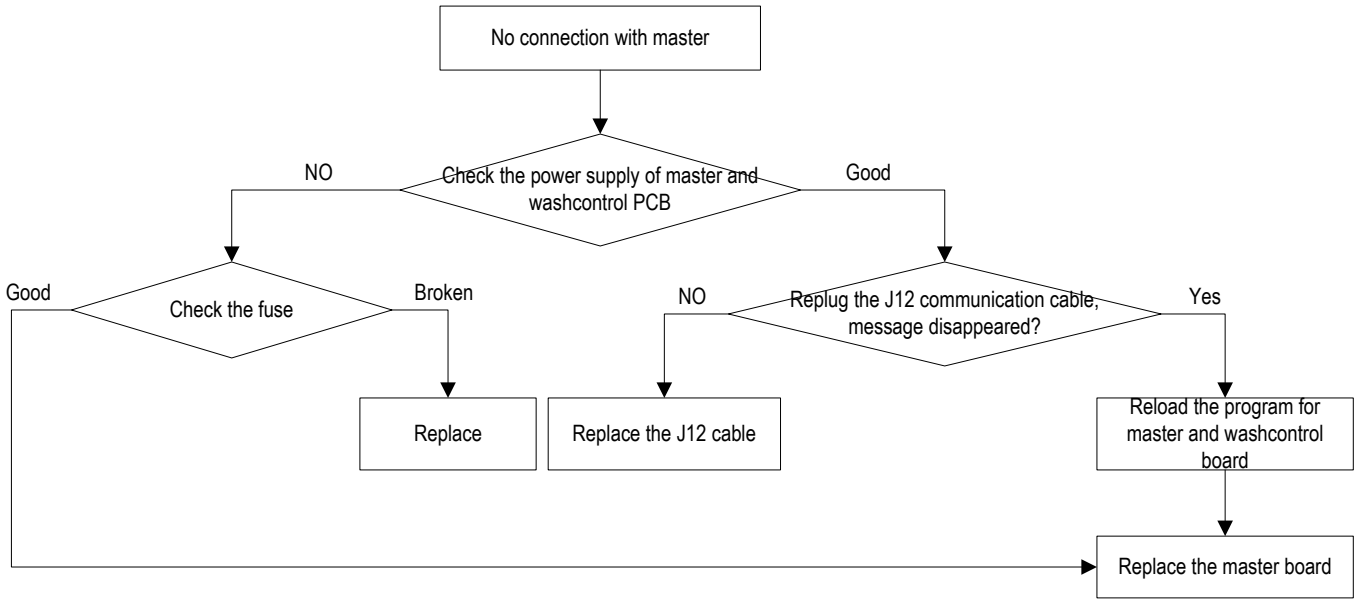


§ 1.15 Run out of paper

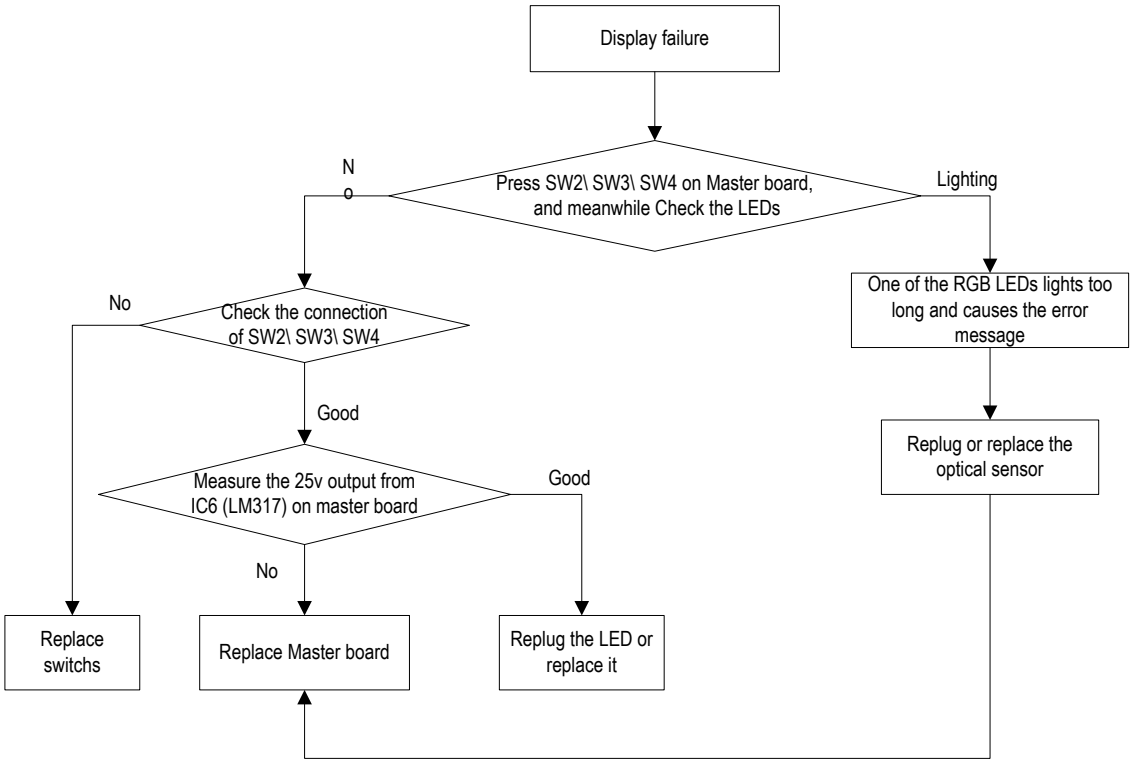


Measure the voltage between UPC and UPA on J17 for upper cassette, should be more than 4.5v with paper, less than 1.0v without paper, The same to lower cassette between DPC and DPA

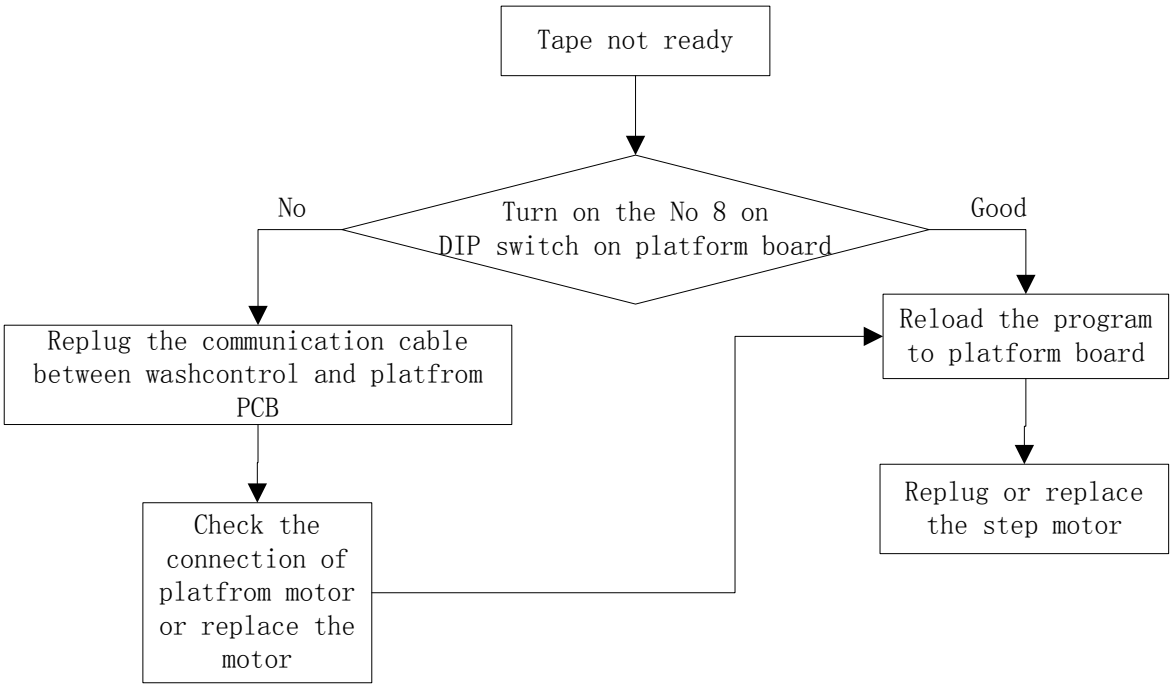
§ 1.16 No connection with master



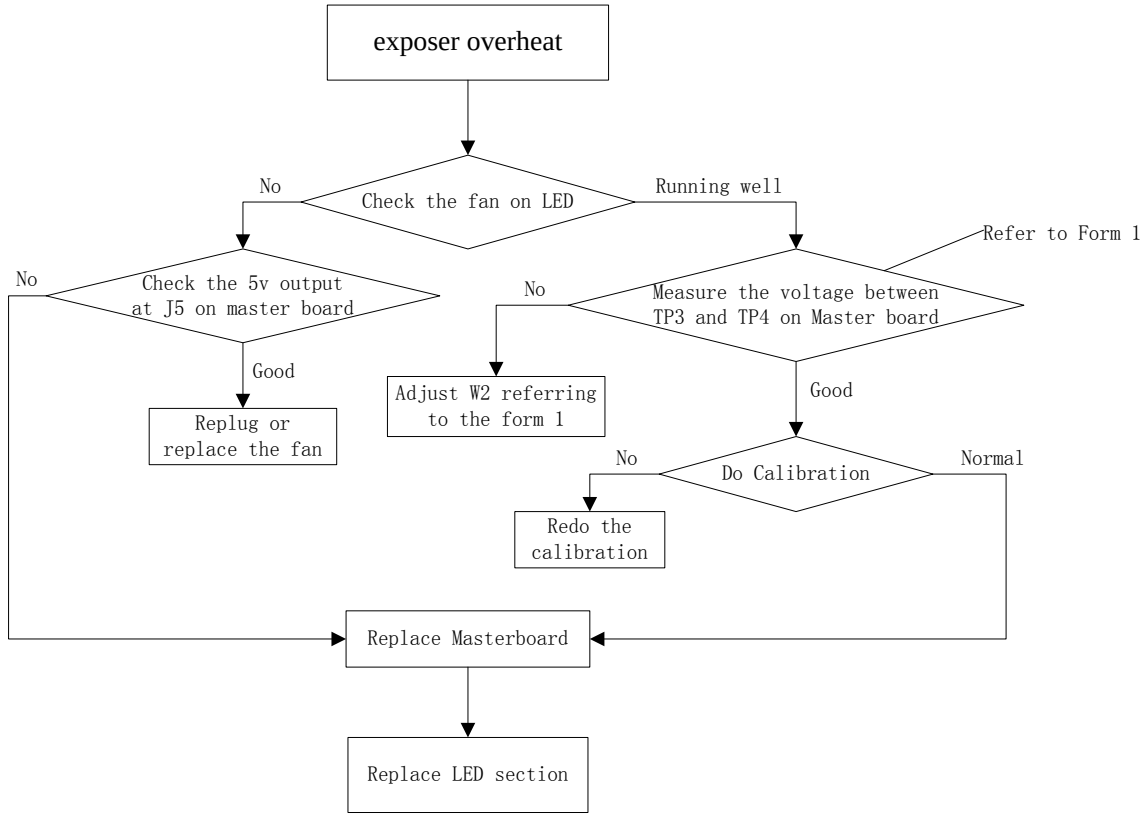
§ 1.17 Display failure


Display failure
Press SW2\ SW3\ SW4 on Master board, and meanwhile Check the LEDs
No
Lighting
Check the connection of SW2\ SW3\ SW4
No
Good
One of the RGB LEDs lights too long and causes the error message
Measure the 25v output from IC6 (LM317) on master board
Good
Replug or replace the optical sensor
No
Replace switchs
Replace Master board
Replug the LED or replace it

§ 1.18 Tape not ready


Tape not ready
Turn on the No 8 on DIP switch on platform board
No
Good
Replug the communication cable between washcontrol and platfrom PCB
Reload the program to platform board
Check the connection of platfrom motor or replace the motor
Replug or replace the step motor

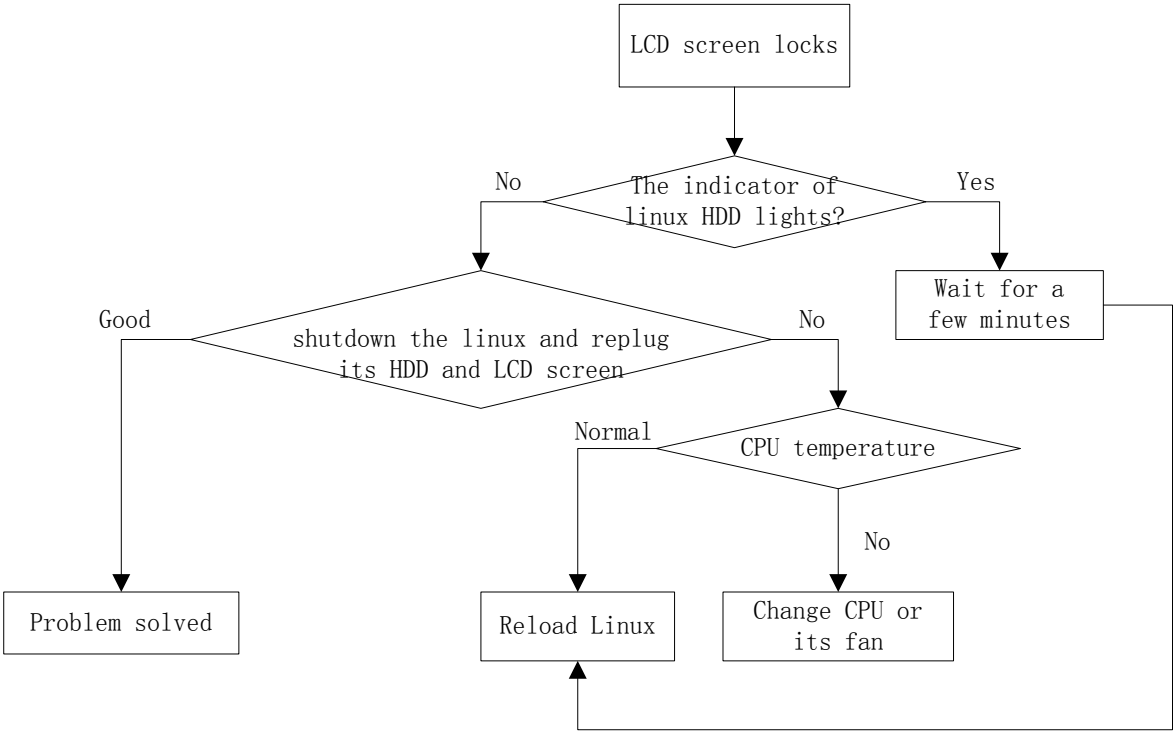
§ 1.19 Exposure overheat



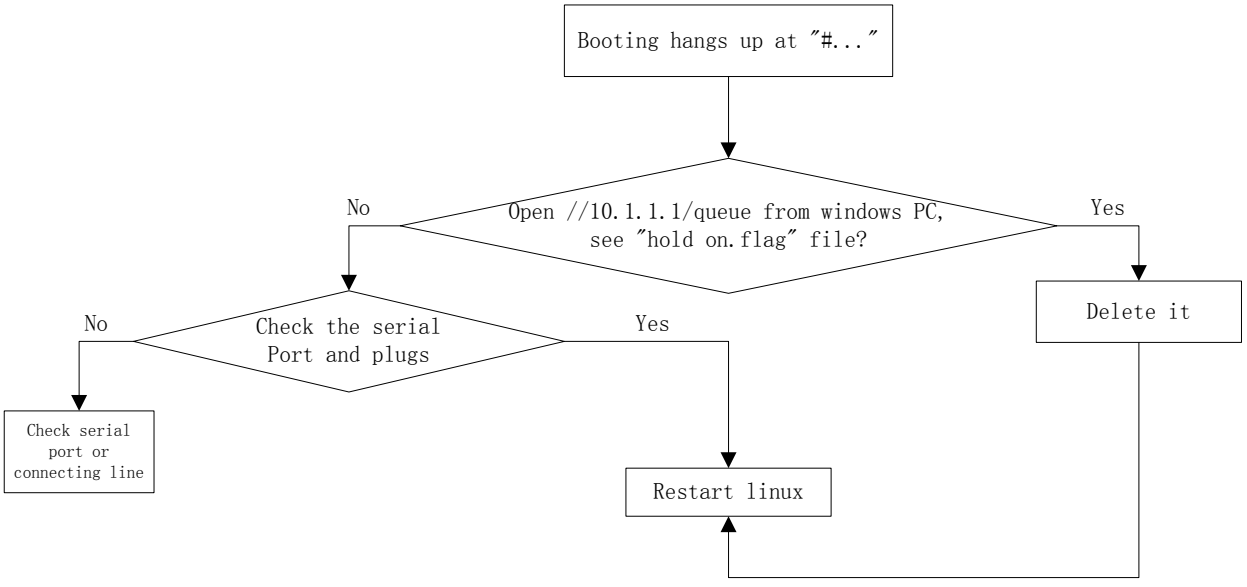
Form 1 ：

Room temperature (℃)	Voltage between TP3 and TP4 (V)
15	0.91
16	0.9
17	0.88
18	0.87
19	0.85
20	0.83
21	0.82
22	0.8
23	0.78
24	0.77
25	0.75
26	0.73
27	0.71
28	0.69
29	0.68
30	0.66

§ 1.20 LCD displayer blocks

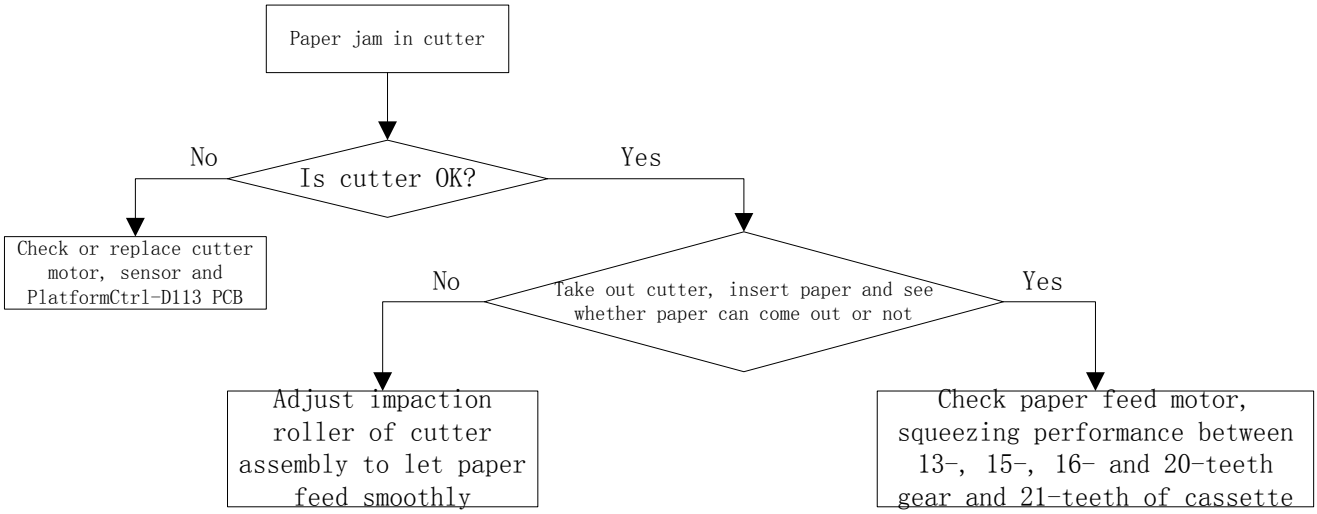


§ 1.21 Linux system loading stops at “#...”

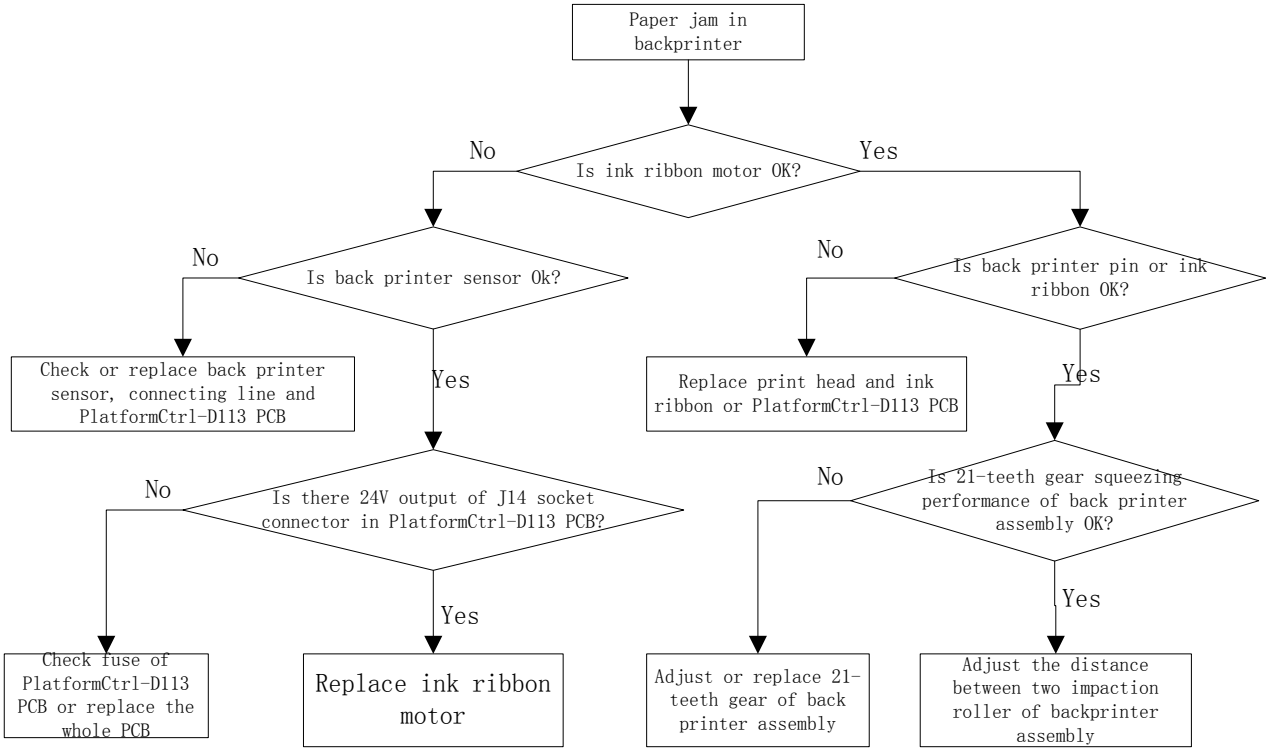


Chapter 2 Mechanical failure

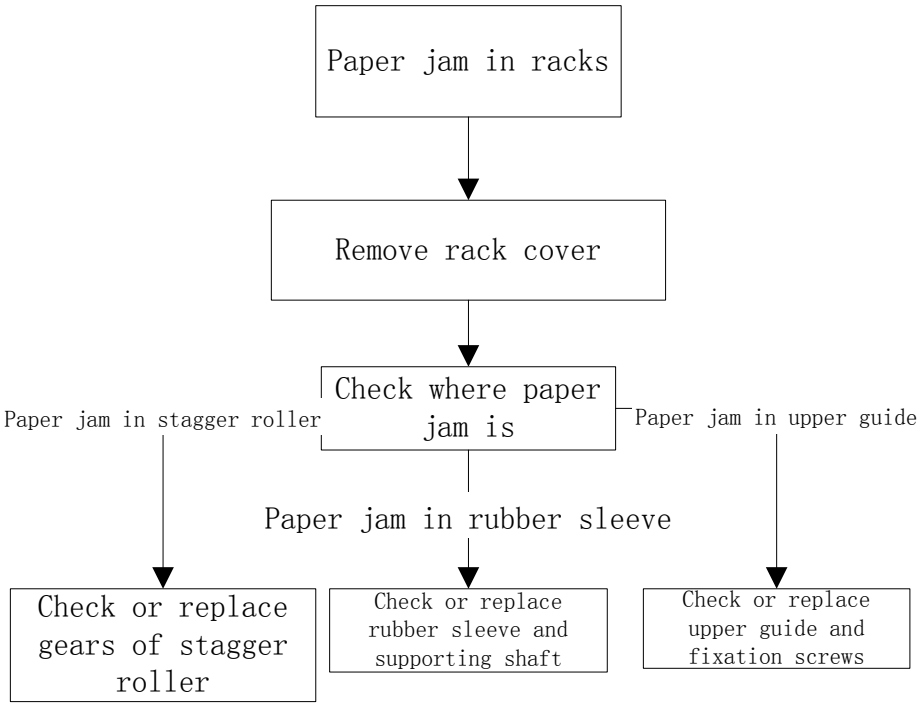
§ 2.1 Paper jam at cutter section


Paper jam in cutter
Is cutter OK?
No
Yes
Check or replace cutter motor, sensor and PlatformCtrl-D113 PCB
Take out cutter, insert paper and see whether paper can come out or not
No
Yes
Adjust impaction roller of cutter assembly to let paper feed smoothly
Check paper feed motor, squeezing performance between 13-, 15-, 16- and 20-teeth gear and 21-teeth of cassette

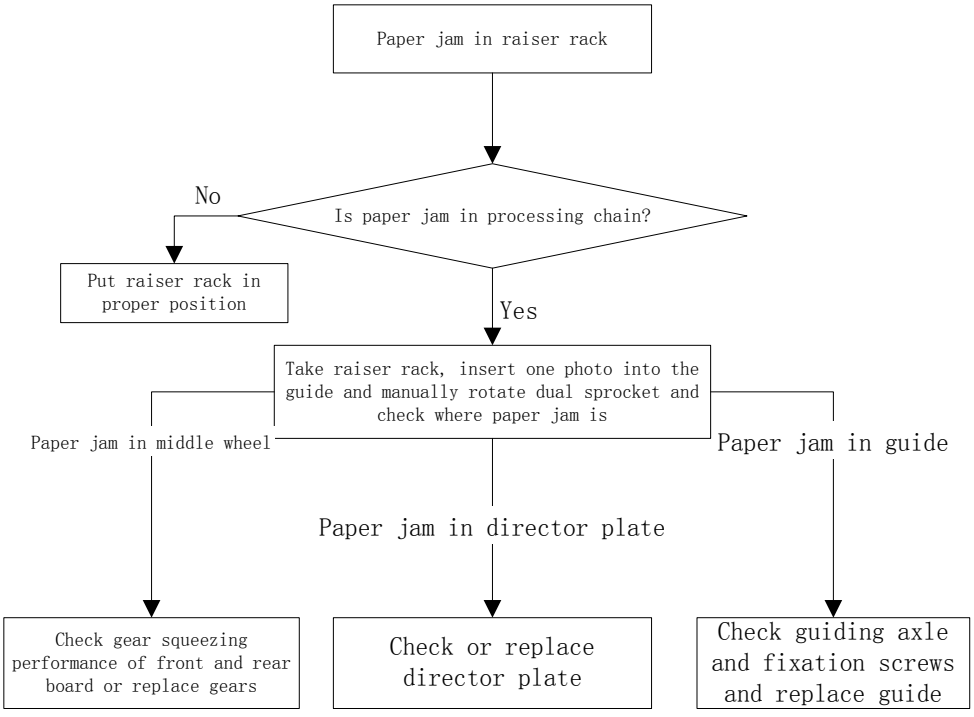
§ 2.2 Paper jam at backprinter section


Paper jam in backprinter
Is ink ribbon motor OK?
No
Yes
Is back printer sensor Ok?
No
Is back printer pin or ink ribbon OK?
No
Check or replace back printer sensor, connecting line and PlatformCtrl-D113 PCB
Yes
Replace print head and ink ribbon or PlatformCtrl-D113 PCB
Yes
Is there 24V output of J14 socket connector in PlatformCtrl-D113 PCB?
No
Is 21-teeth gear squeezing performance of back printer assembly OK?
No
Yes
Yes
Check fuse of PlatformCtrl-D113 PCB or replace the whole PCB
Replace ink ribbon motor
Adjust or replace 21-teeth gear of back printer assembly
Adjust the distance between two impaction roller of backprinter assembly

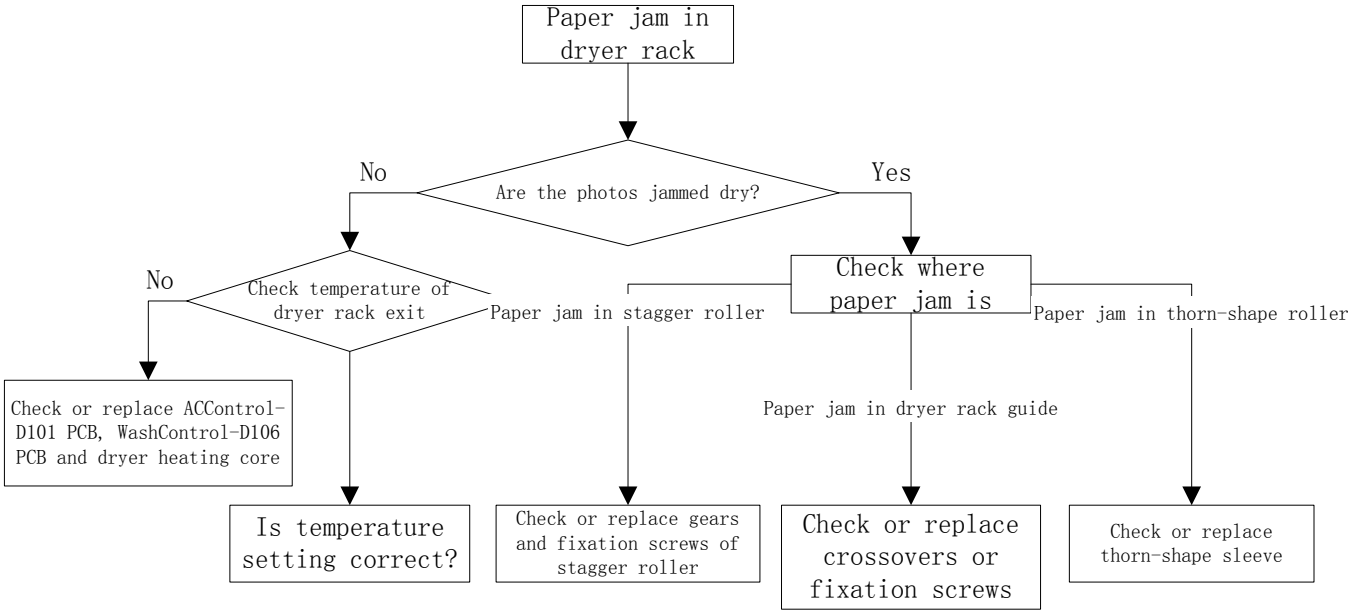
§ 2.3 Paper jam in raiser rack


Paper jam in racks
Remove rack cover
Check where paper jam is
Paper jam in stagger roller
Paper jam in rubber sleeve
Paper jam in upper guide
Check or replace gears of stagger roller
Check or replace rubber sleeve and supporting shaft
Check or replace upper guide and fixation screws

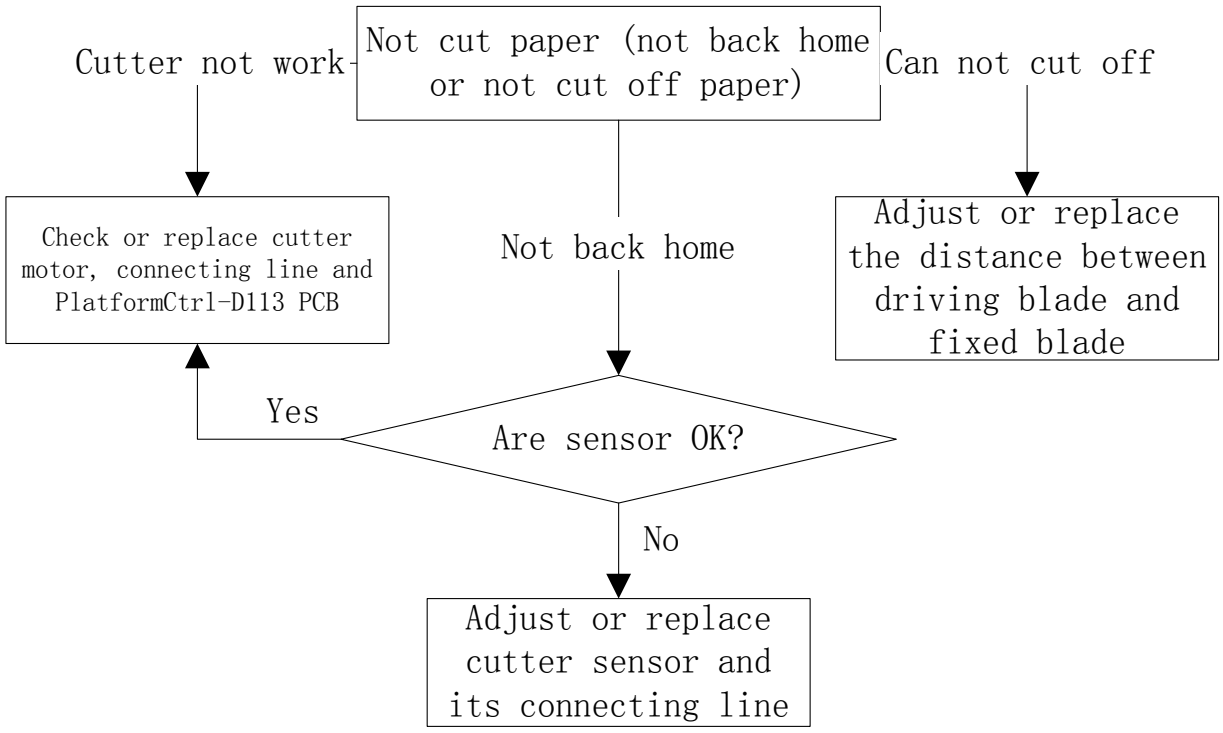
§ 2.4 Paper jam in racks


Paper jam in raiser rack
Is paper jam in processing chain?
No
Put raiser rack in proper position
Yes
Take raiser rack, insert one photo into the guide and manually rotate dual sprocket and check where paper jam is
Paper jam in middle wheel
Paper jam in director plate
Paper jam in guide
Check gear squeezing performance of front and rear board or replace gears
Check or replace director plate
Check guiding axle and fixation screws and replace guide

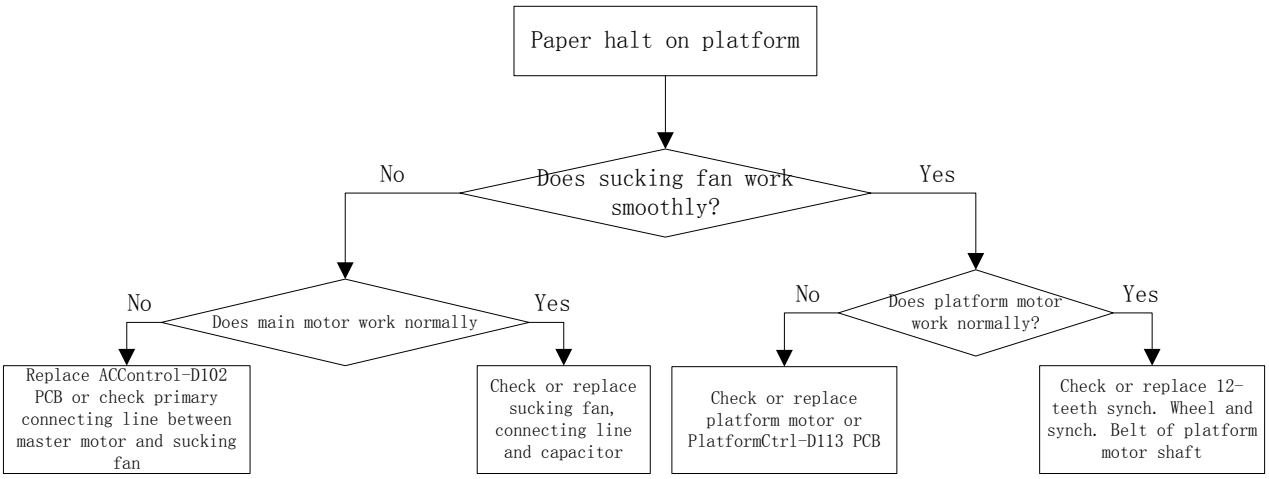
§ 2.5 Paper jam in dryer rack


Paper jam in dryer rack
Are the photos jammed dry?
No
Yes
Check temperature of dryer rack exit
No
Check where paper jam is
Paper jam in stagger roller
Paper jam in thorn-shape roller
Paper jam in dryer rack guide
Check or replace ACControl-D101 PCB, WashControl-D106 PCB and dryer heating core
Is temperature setting correct?
Check or replace gears and fixation screws of stagger roller
Check or replace crossovers or fixation screws
Check or replace thorn-shape sleeve

§ 2.6 Cutter doesn't work normally

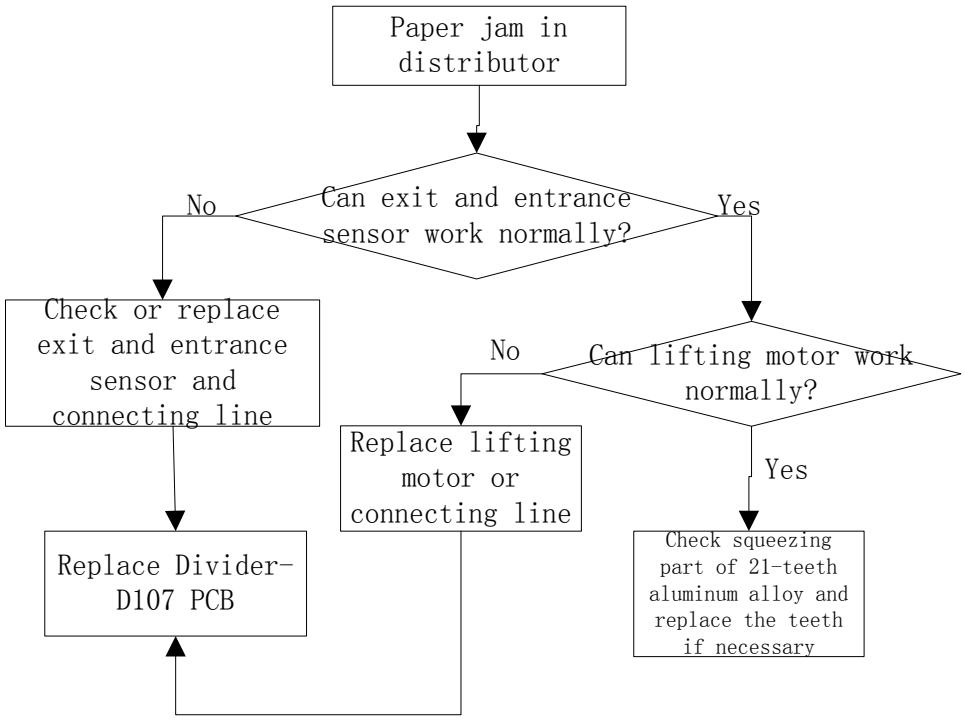

Cutter not work
Not cut paper (not back home or not cut off paper)
Can not cut off
Check or replace cutter motor, connecting line and PlatformCtrl-D113 PCB
Not back home
Adjust or replace the distance between driving blade and fixed blade
Yes
Are sensor OK?
No
Adjust or replace cutter sensor and its connecting line

§ 2.7 Paper stay on the platform


Paper halt on platform
Does sucking fan work smoothly?
No
Yes
Does main motor work normally
No
Yes
Does platform motor work normally?
No
Yes
Replace ACControl-D102 PCB or check primary connecting line between master motor and sucking fan
Check or replace sucking fan, connecting line and capacitor
Check or replace platform motor or PlatformCtrl-D113 PCB
Check or replace 12-teeth synch. Wheel and synch. Belt of platform motor shaft

Check the error message on the LCD displayer.

§ 2.8 Paper jam in divider


Paper jam in distributor
Can exit and entrance sensor work normally?
No
Yes
Check or replace exit and entrance sensor and connecting line
Can lifting motor work normally?
No
Yes
Replace lifting motor or connecting line
Check squeezing part of 21-teeth aluminum alloy and replace the teeth if necessary
Replace Divider-D107 PCB

§ 2.9 Photo come out not dry

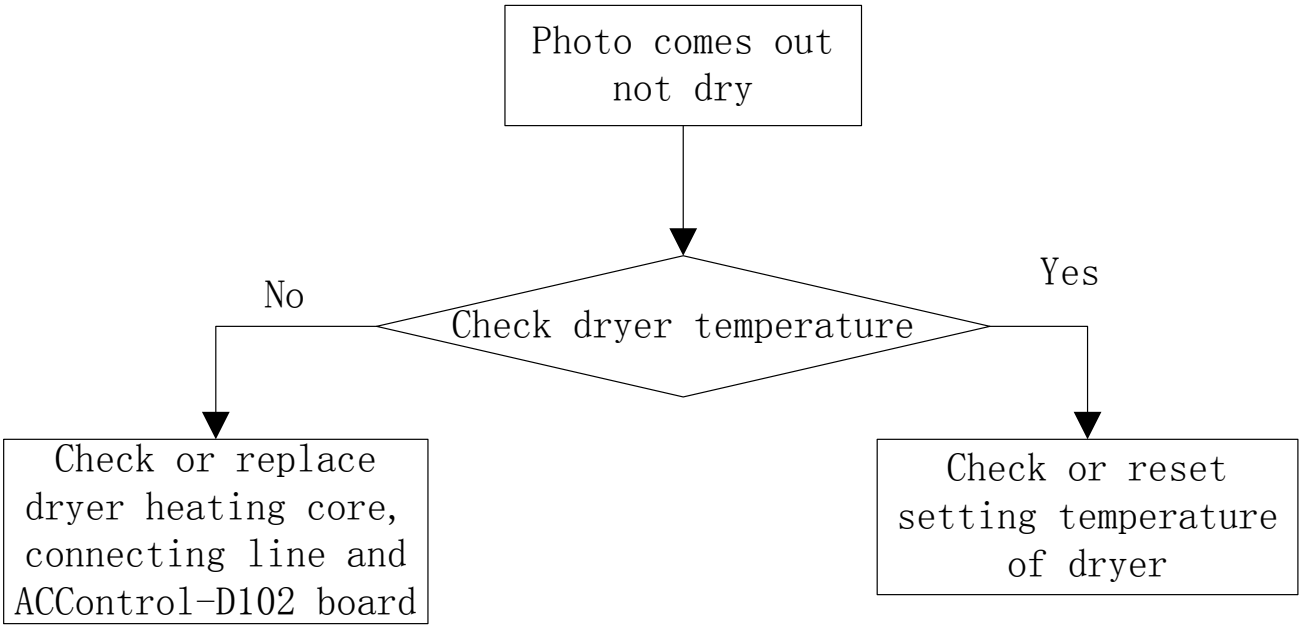
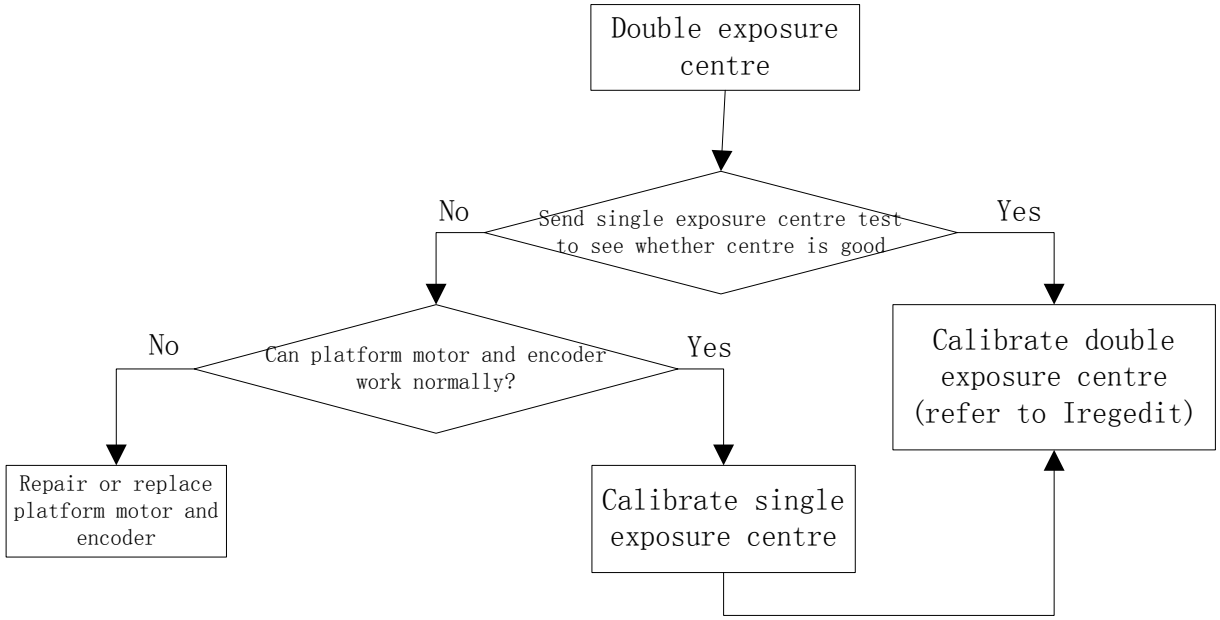


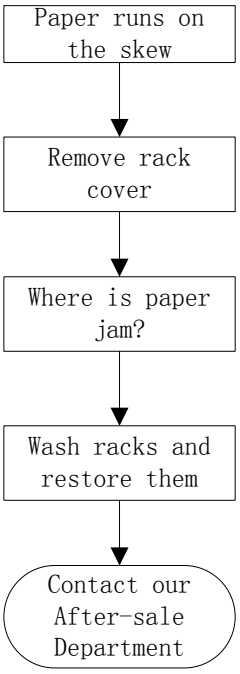
Photo comes out not dry
Check dryer temperature
No
Yes
Check or replace dryer heating core, connecting line and ACControl-D102 board
Check or reset setting temperature of dryer

The start to work while the chemical temperatures ready

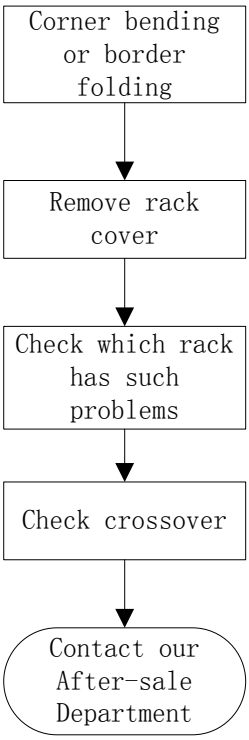
§ 2.10 Photo out of center and couldn't be corrected by cassette offset


Double exposure centre
Send single exposure centre test to see whether centre is good
No
Yes
Can platform motor and encoder work normally?
No
Yes
Repair or replace platform motor and encoder
Calibrate single exposure centre
Calibrate double exposure centre (refer to Iregedit)

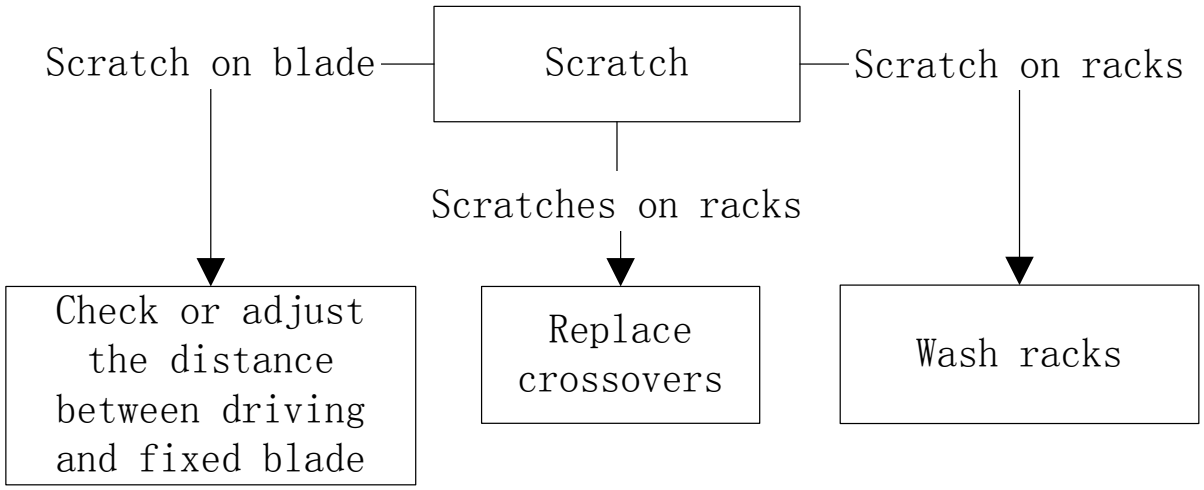
§ 2.11 Photo come out not straight


Paper runs on the skew
Remove rack cover
Where is paper jam?
Wash racks and restore them
Contact our After-sale Department

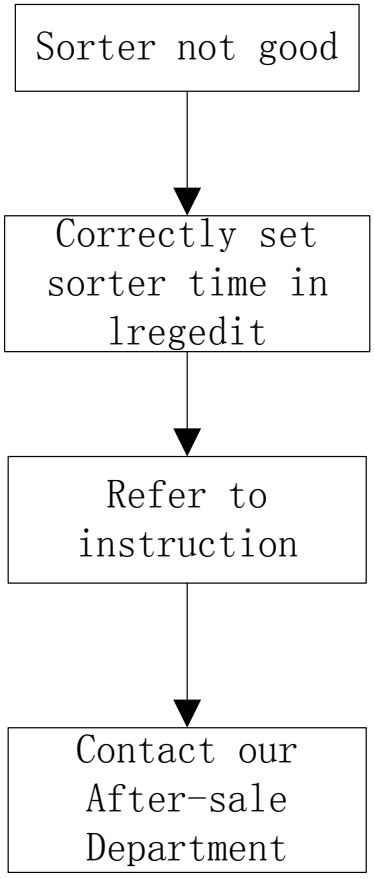
§ 2.12 Photo corner bending


Corner bending or border folding
Remove rack cover
Check which rack has such problems
Check crossover
Contact our After-sale Department

§ 2.13 Photo scratch

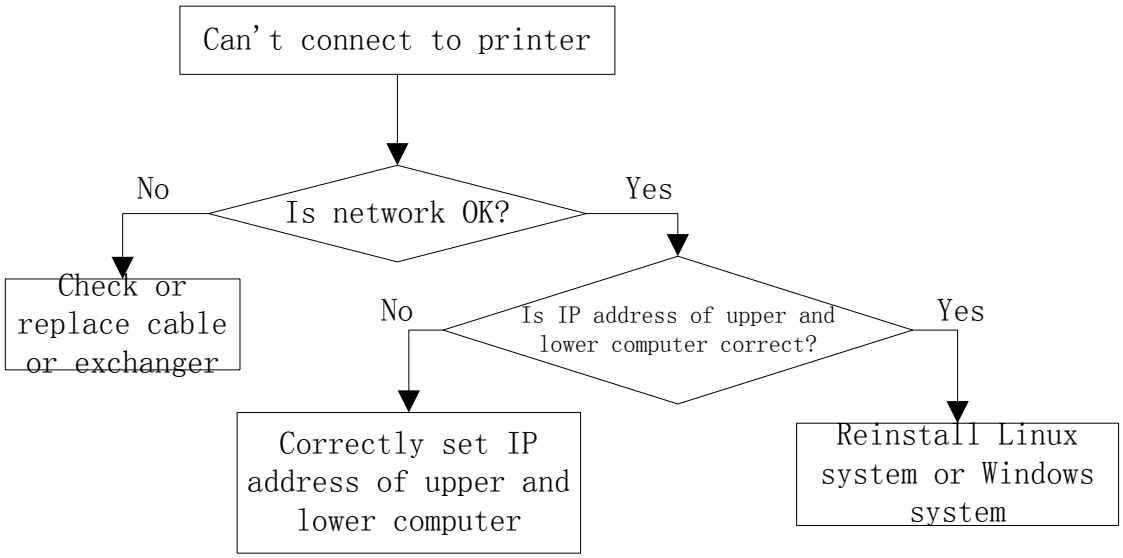


§ 2.14 Sorter doesn't sort photo on time

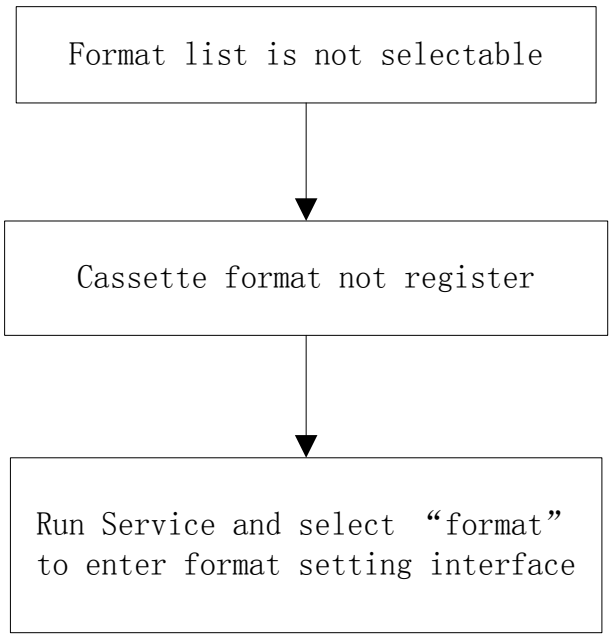


Chapter 3 Software failure

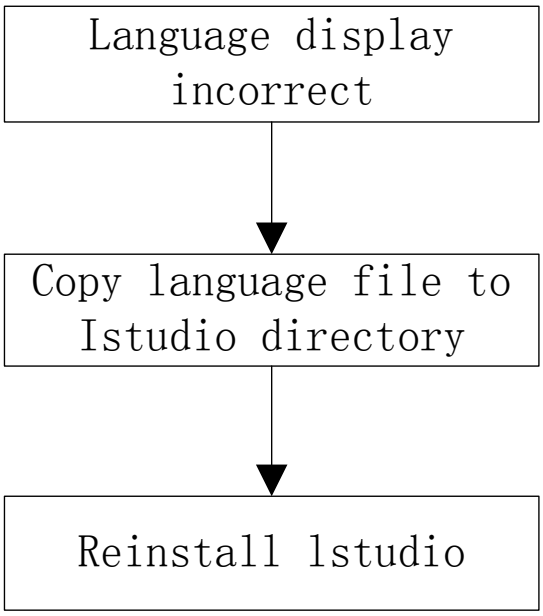
§ 3.1 Can’t connect to printer


Can’t connect to printer
Is network OK?
No
Yes
Check or replace cable or exchanger
Is IP address of upper and lower computer correct?
No
Yes
Correctly set IP address of upper and lower computer
Reinstall Linux system or Windows system

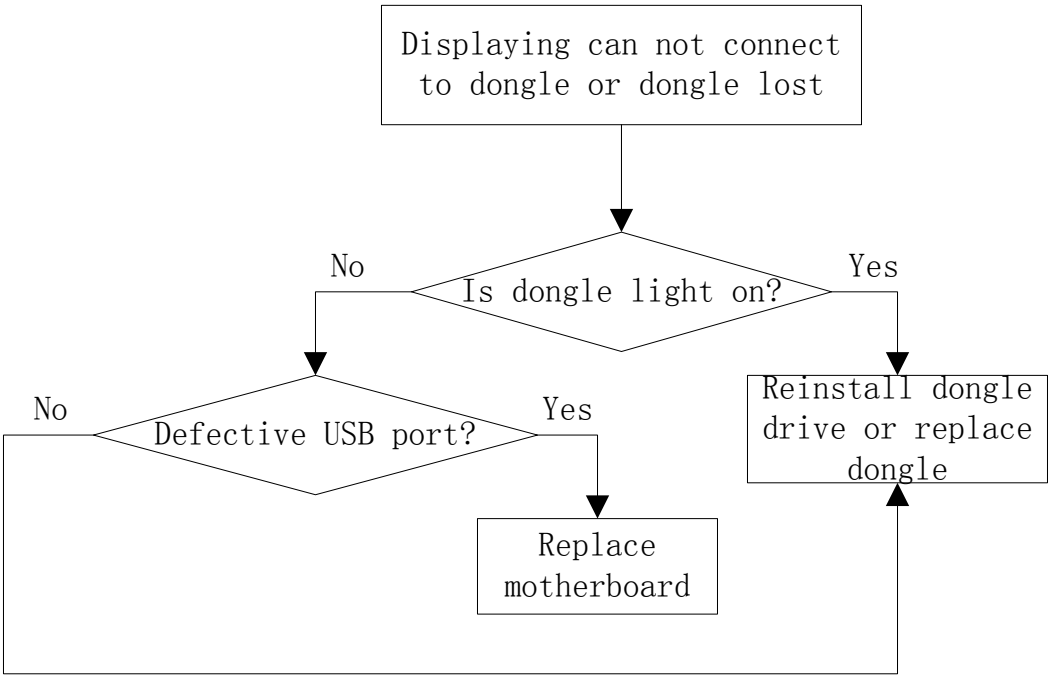
§ 3.2 format list is not selectable


Format list is not selectable
Cassette format not register
Run Service and select “format” to enter format setting interface

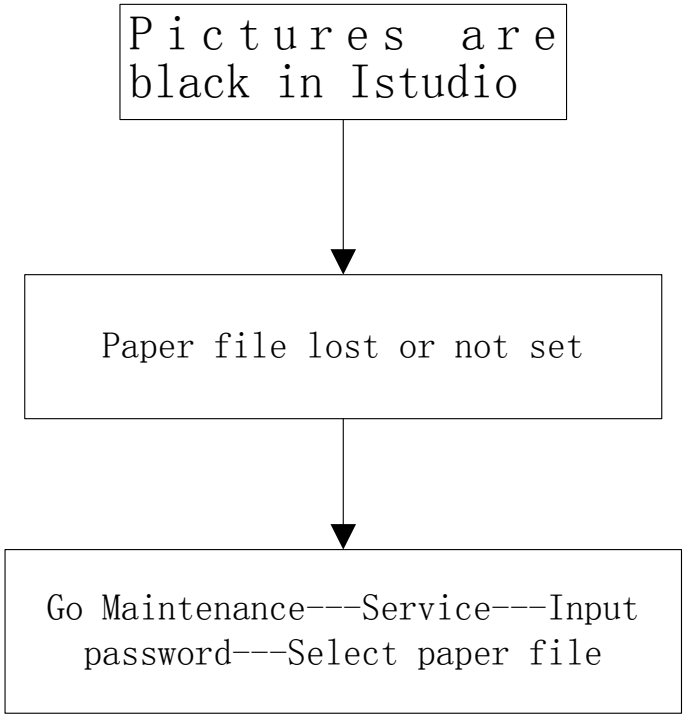
§ 3.3 Language displays abnormal



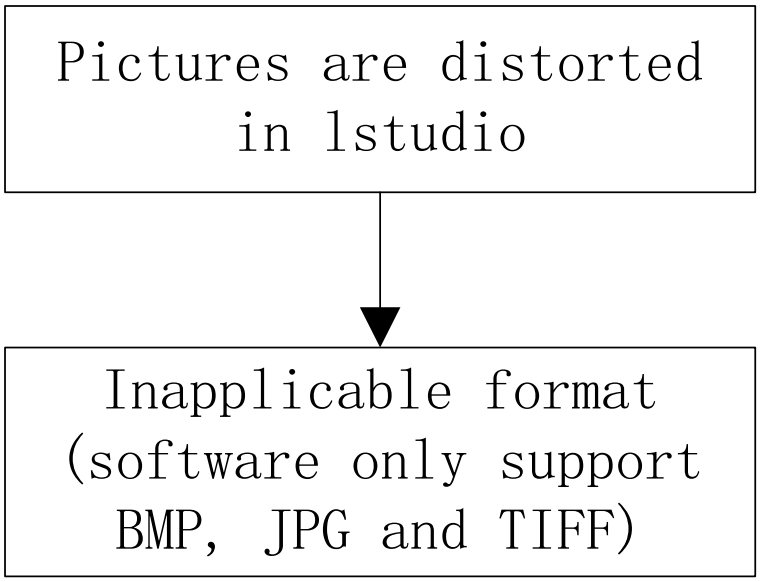
§ 3.4 Hasp not found



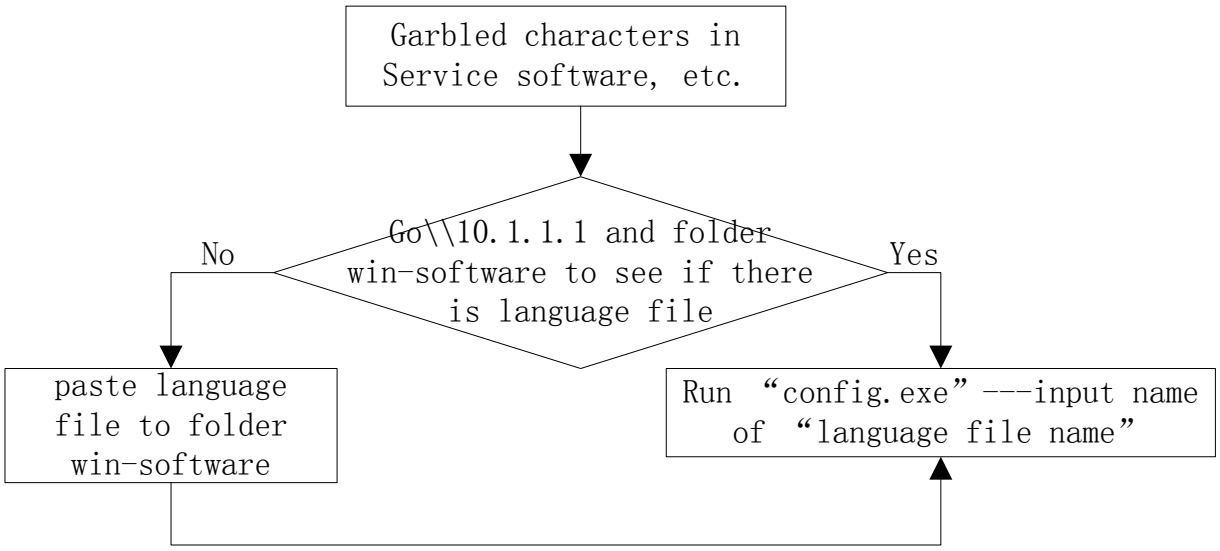
§ 3.5 Pictures are black in lafot Istudio



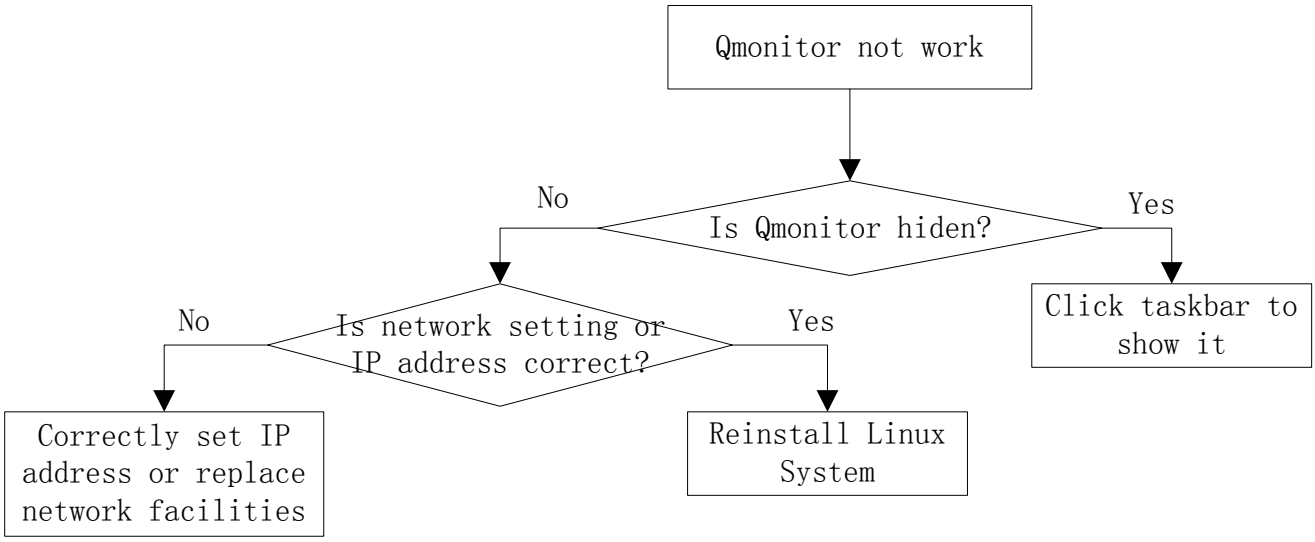
§ 3.6 Pictures are distorted in Istudio



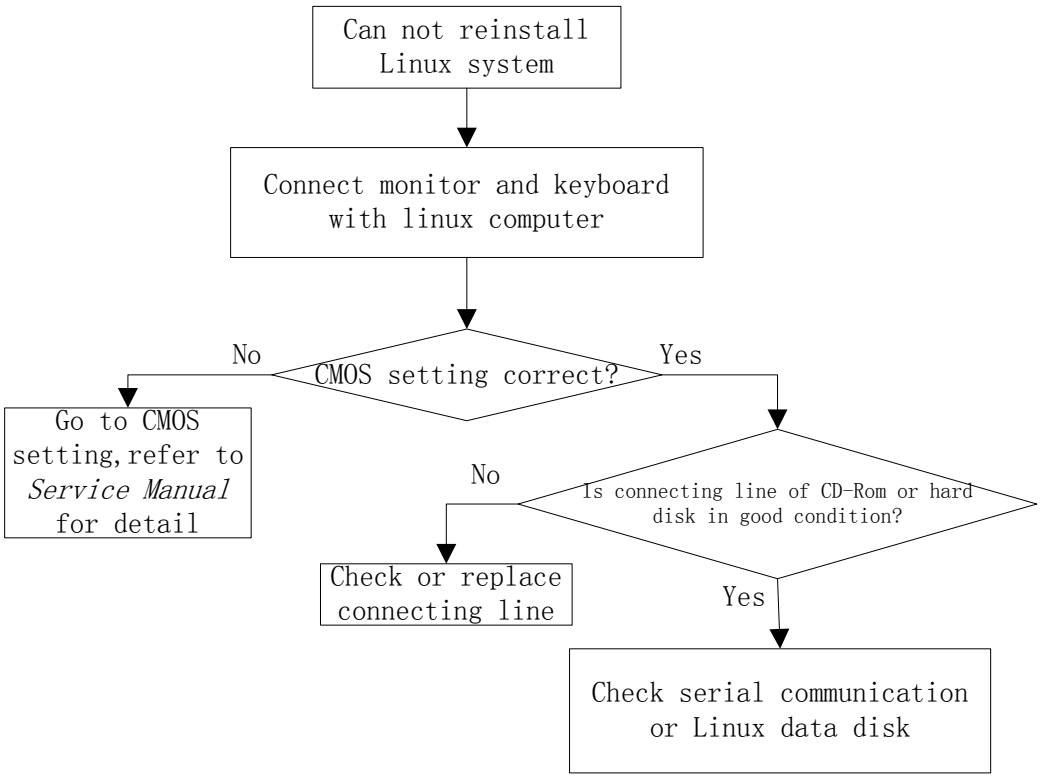
§ 3.7 Language error in maintenance software etc.


Garbled characters in Service software, etc.
Go\\10.1.1.1 and folder win-software to see if there is language file
No
Yes
paste language file to folder win-software
Run “config.exe” ---input name of “language file name”

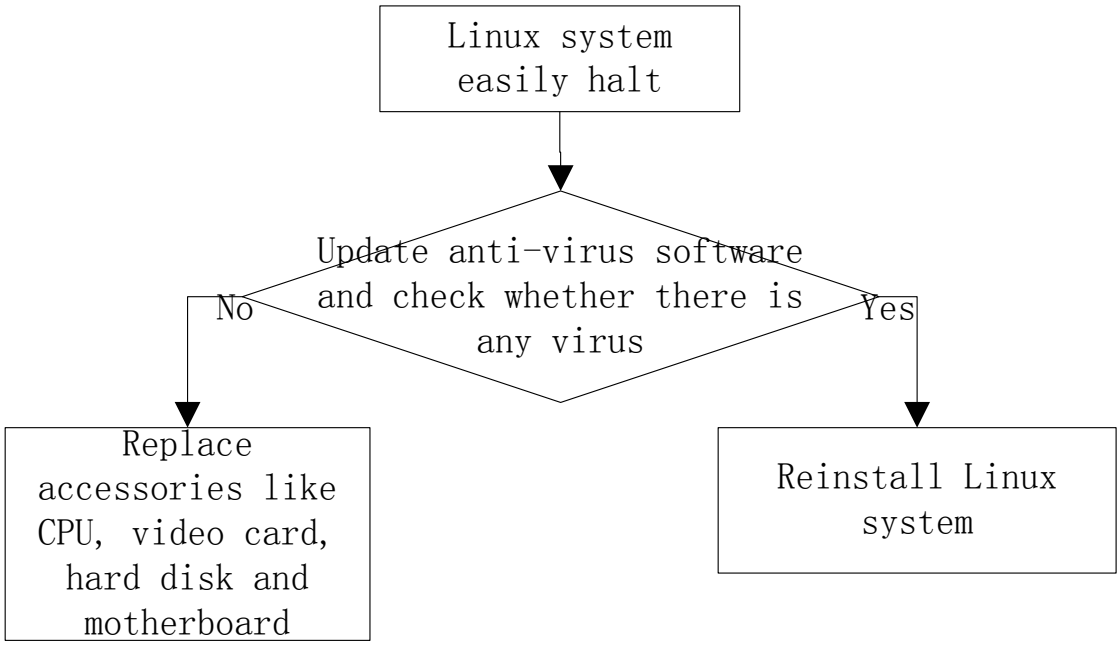
§ 3.8 Qmonitor software cannot be run



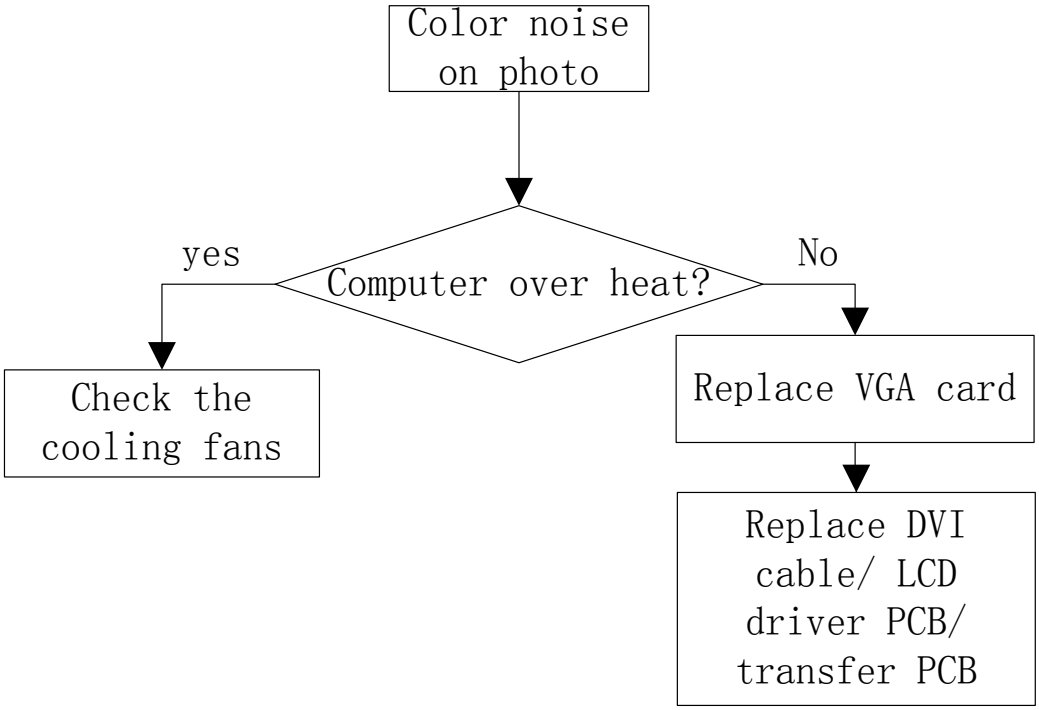
§ 3.9 Fail to make linux restoration


Can not reinstall Linux system
Connect monitor and keyboard with linux computer
CMOS setting correct?
No
Yes
Go to CMOS setting, refer to Service Manual for detail
Is connecting line of CD-Rom or hard disk in good condition?
No
Yes
Check or replace connecting line
Check serial communication or Linux data disk

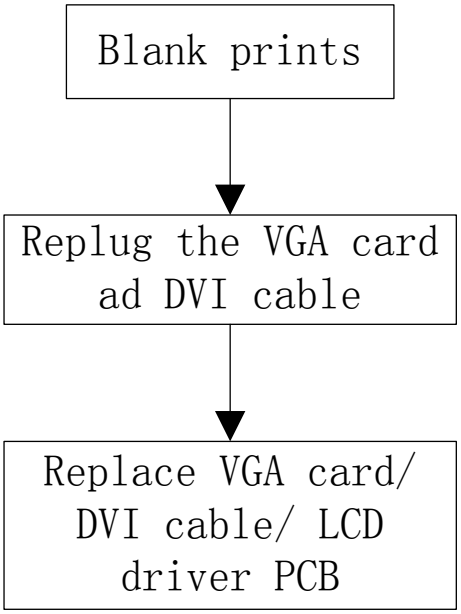
§ 3.10 Linux freezes frequently


Linux system easily halt
Update anti-virus software and check whether there is any virus
No
Yes
Replace accessories like CPU, video card, hard disk and motherboard
Reinstall Linux system

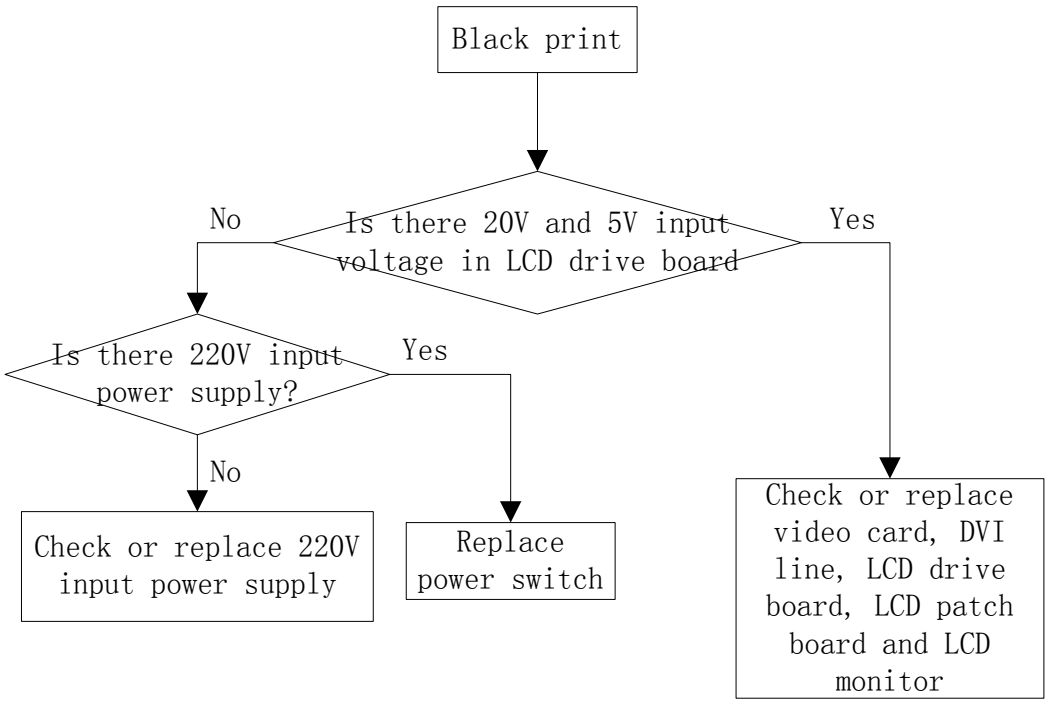
§ 3.11 Photo full of color noise



§ 3.12 Blank prints



§ 3.13 Black print


Black print
Is there 20V and 5V input voltage in LCD drive board
No
Yes
Is there 220V input power supply?
Yes
No
Check or replace 220V input power supply
Replace power switch
Check or replace video card, DVI line, LCD drive board, LCD patch board and LCD monitor

§ 3.14 Printing hanging up